

10044736-121401

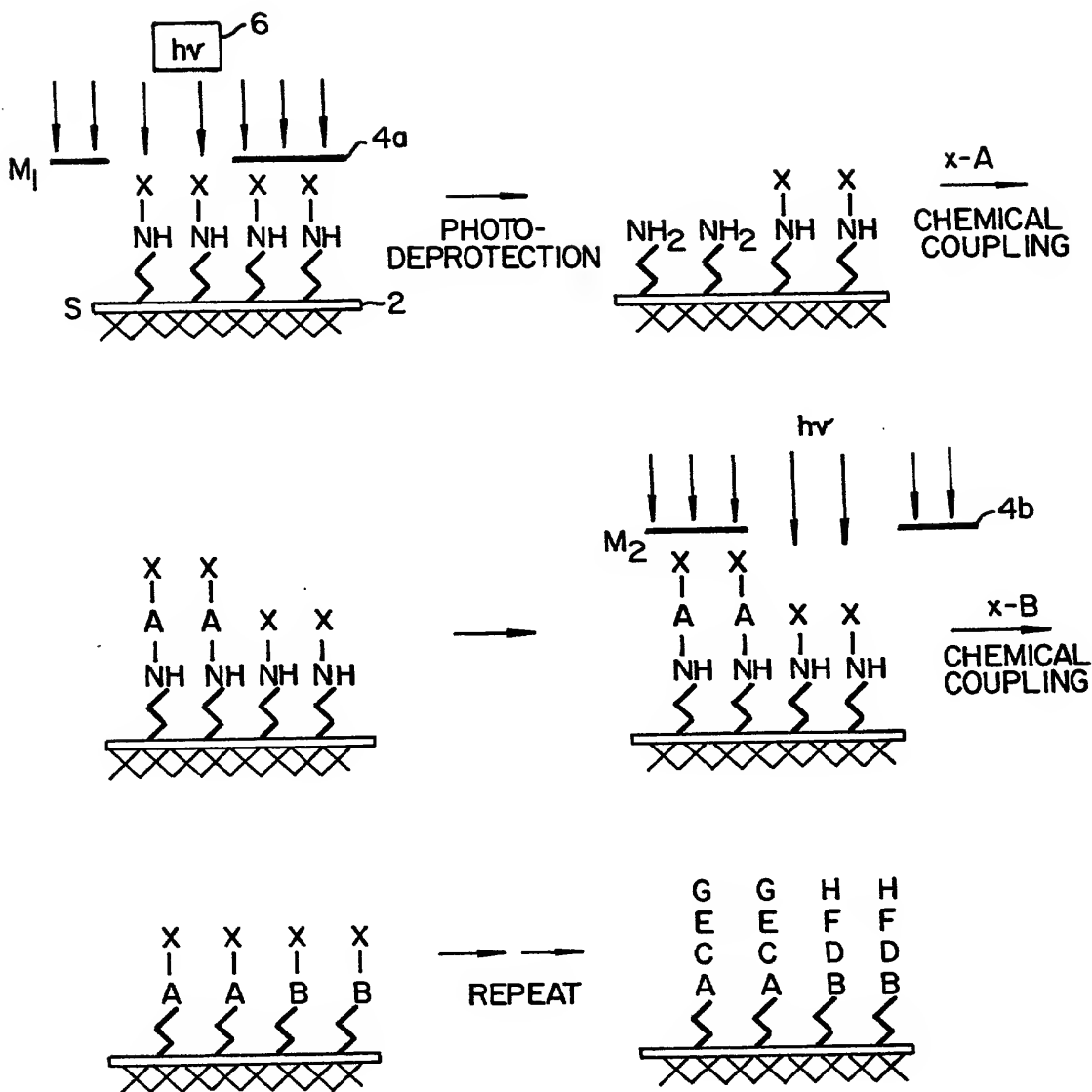


FIG. 1.

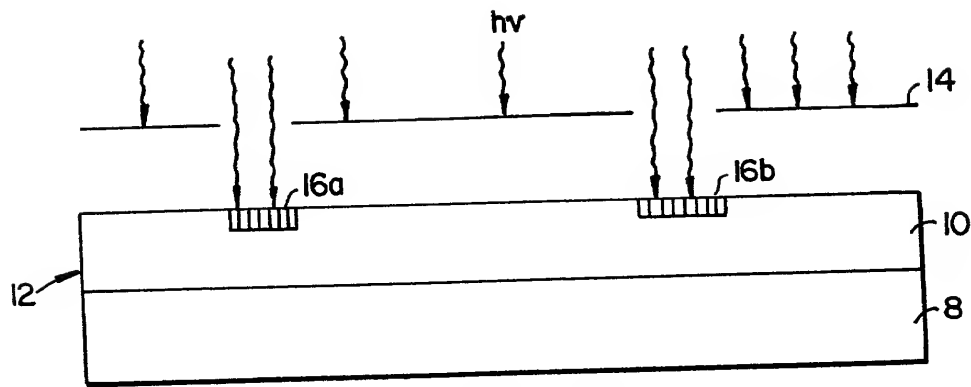


FIG. 2.

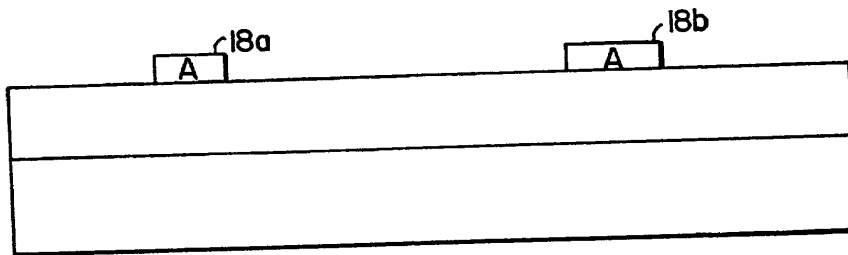


FIG. 3.

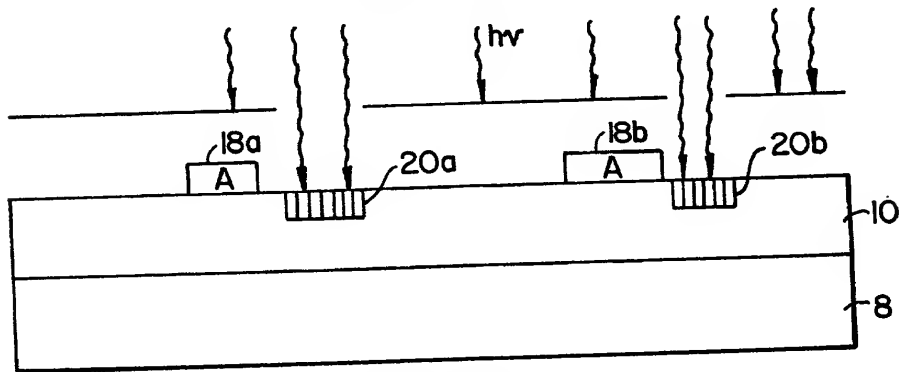


FIG. 4.

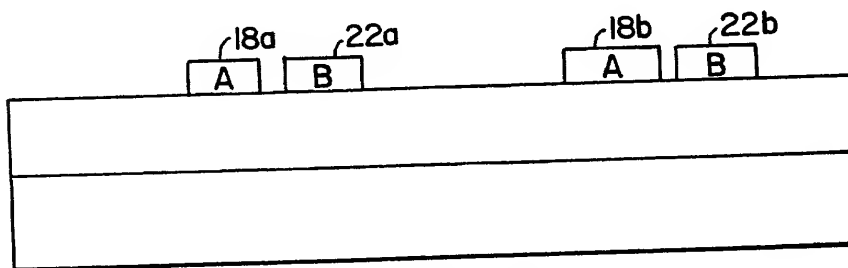
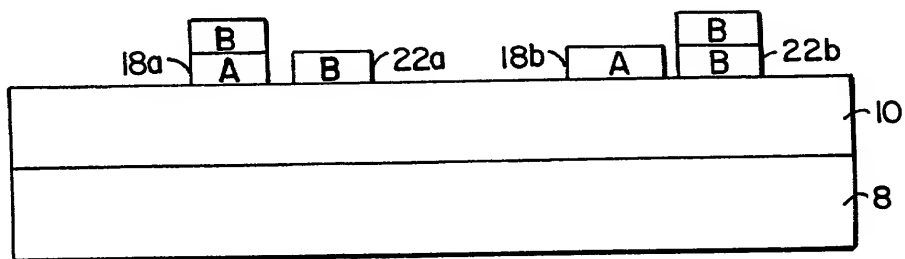
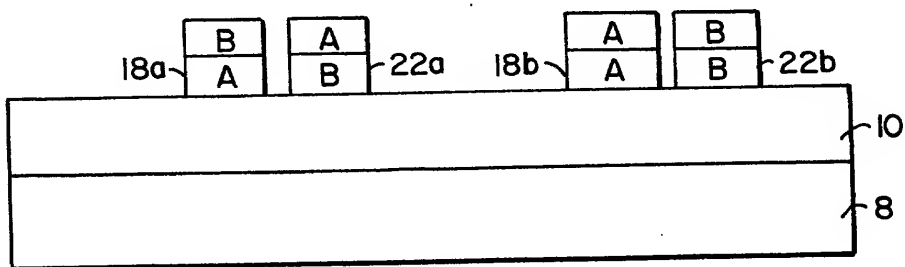


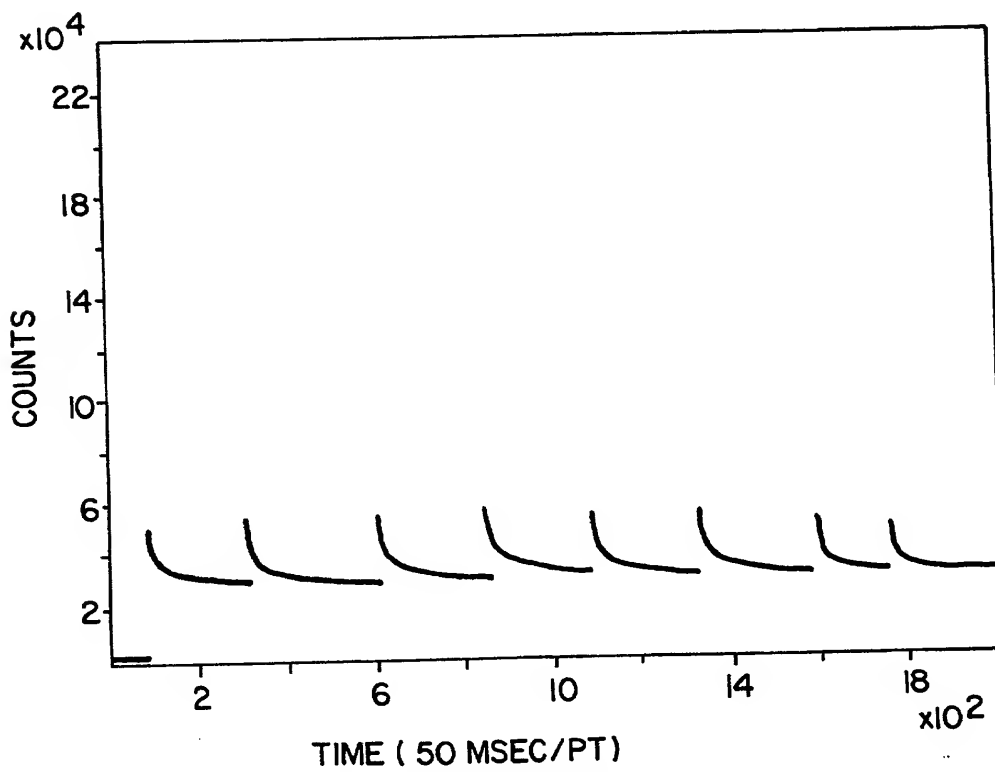
FIG. 5.



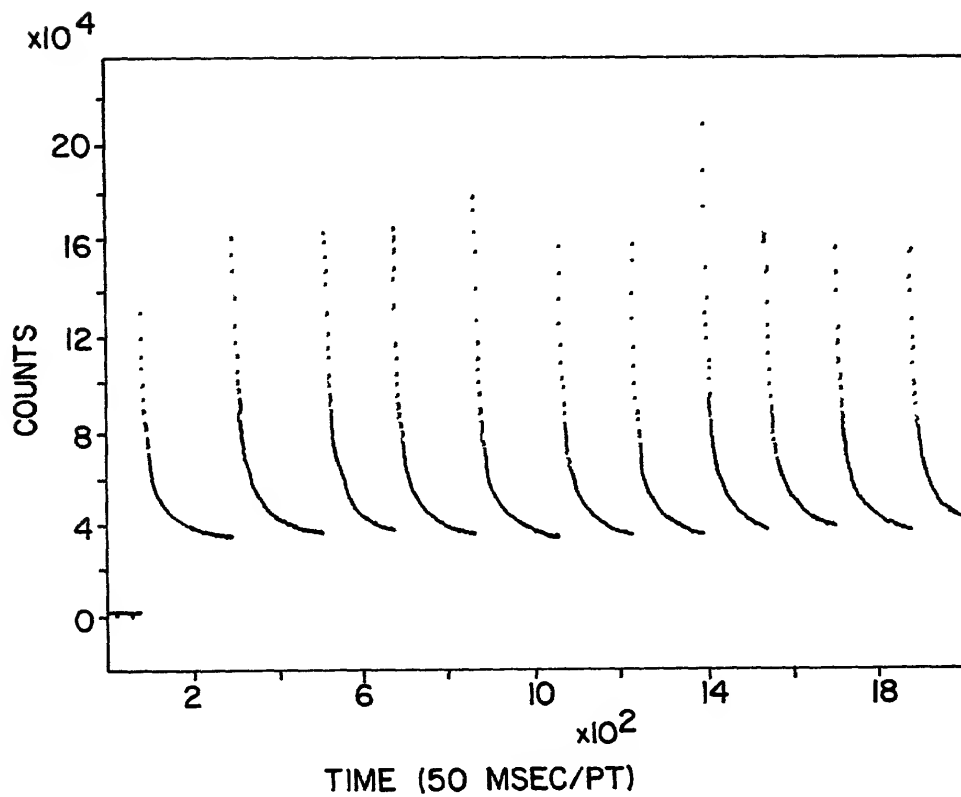
**FIG. 6.**



**FIG. 7.**

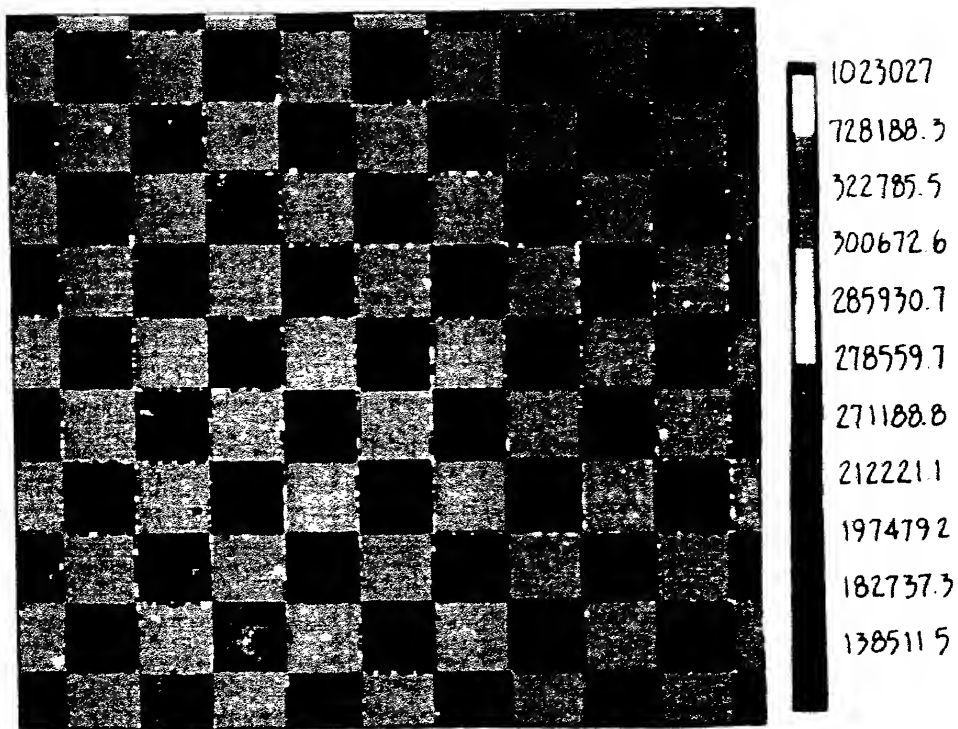


**FIG. 8A.**



**FIG. 8B.**

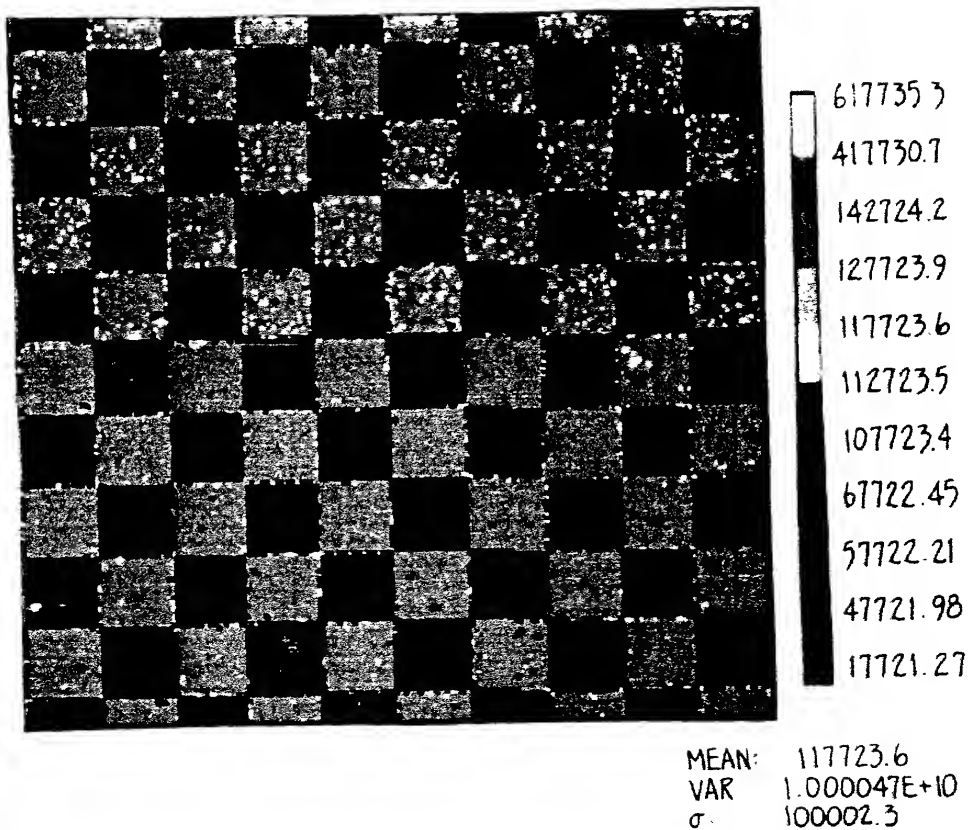
10044716-124464



MEAN 285930.7  
VAR 2.173242E+10  
 $\sigma$  147419.2

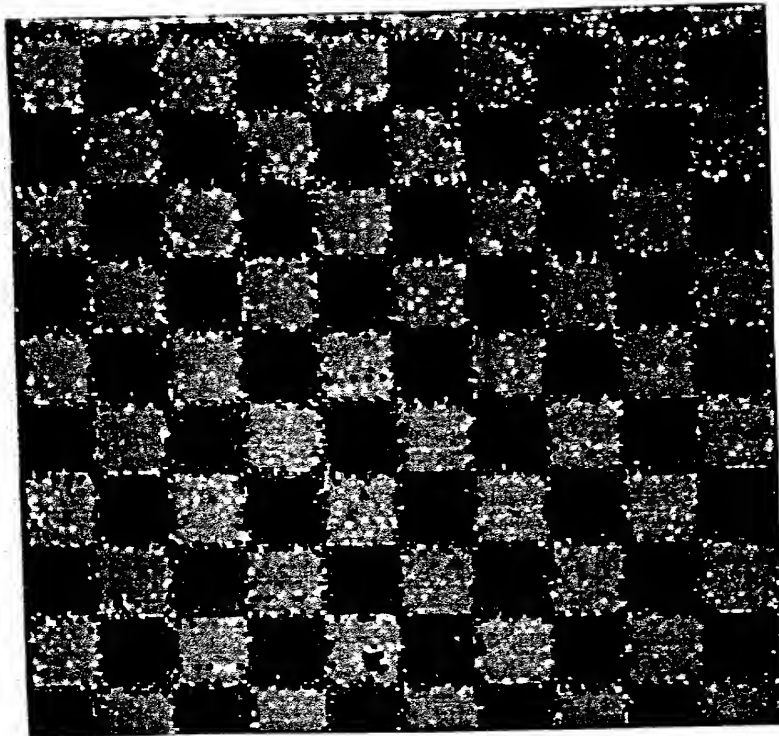
**FIG.\_9A.**

10044736.321403



**FIG. 9B.**

100144735-434401

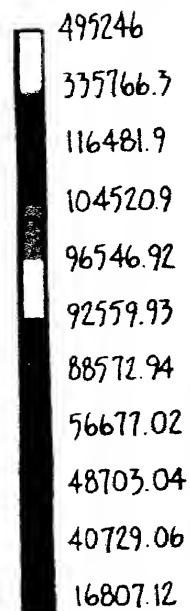
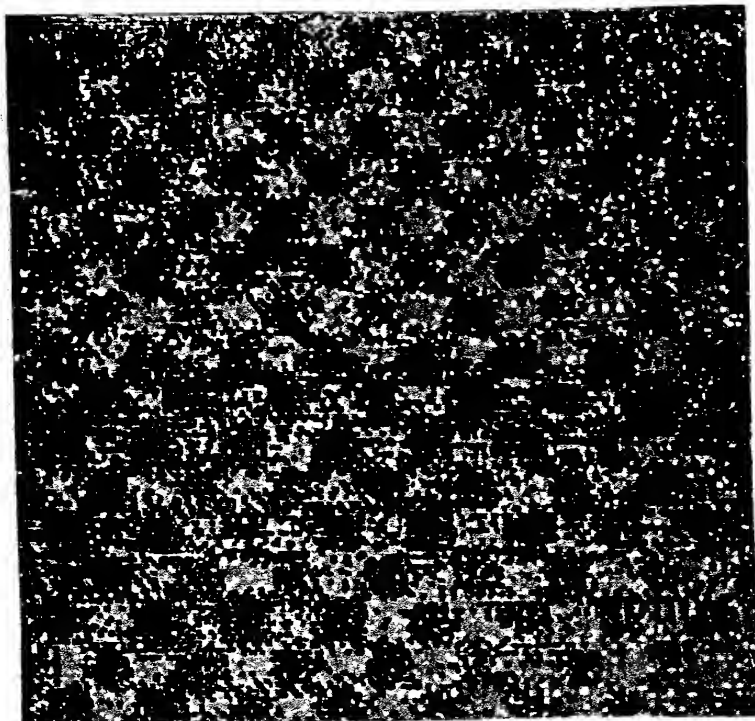


552484.3  
373317.4  
126963  
113525.5  
104567.2  
100000  
95608.83  
59775.46  
50017.12  
41858.78  
14983.75

MEAN: 104567.2  
VAR: 8.025189E+09  
 $\sigma$ : 89583.42

FIG. 9C.

10014716-121401



MEAN: 96546.92  
VAR: 6.358437E+09  
 $\sigma$ : 79739.8

FIG.\_9D.



FOOT SHEET

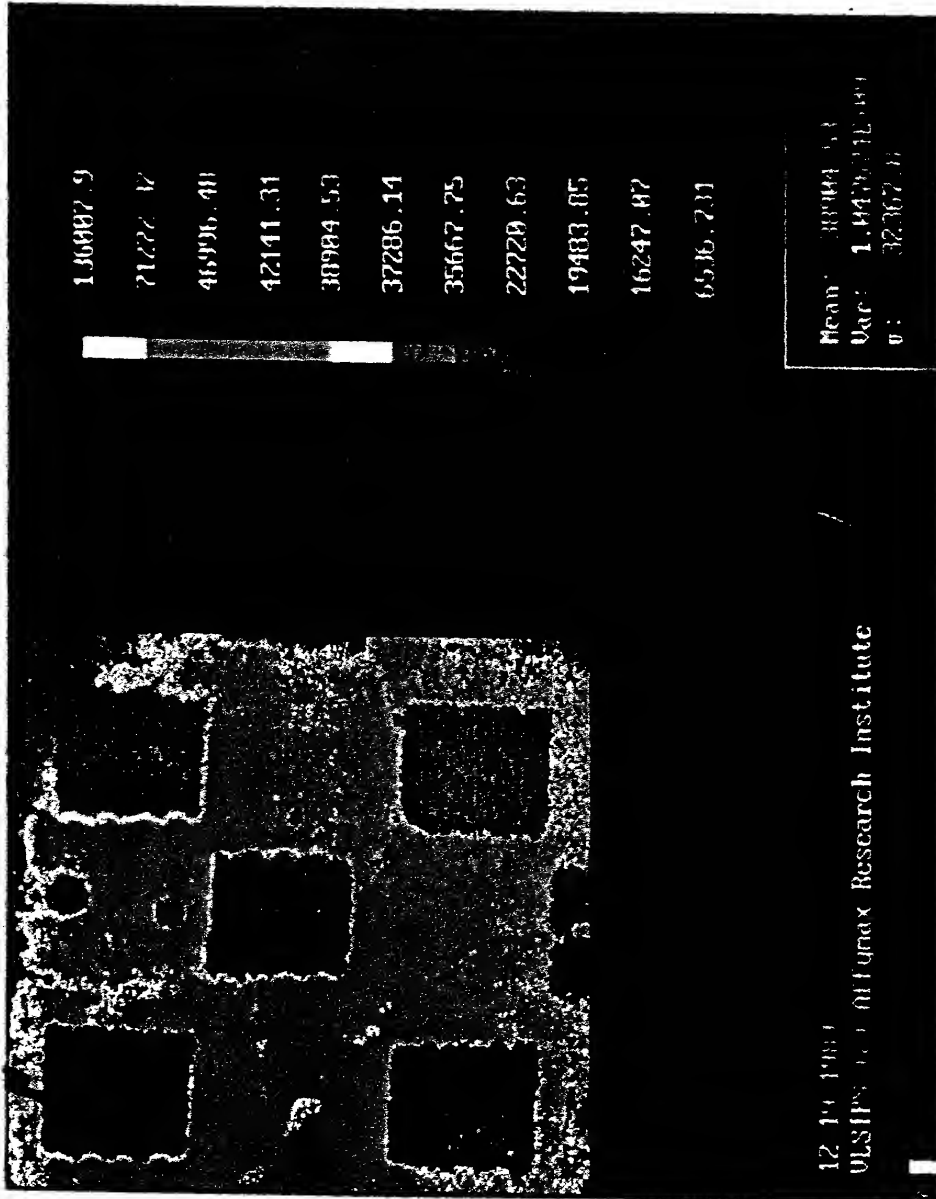


FIG. 10.

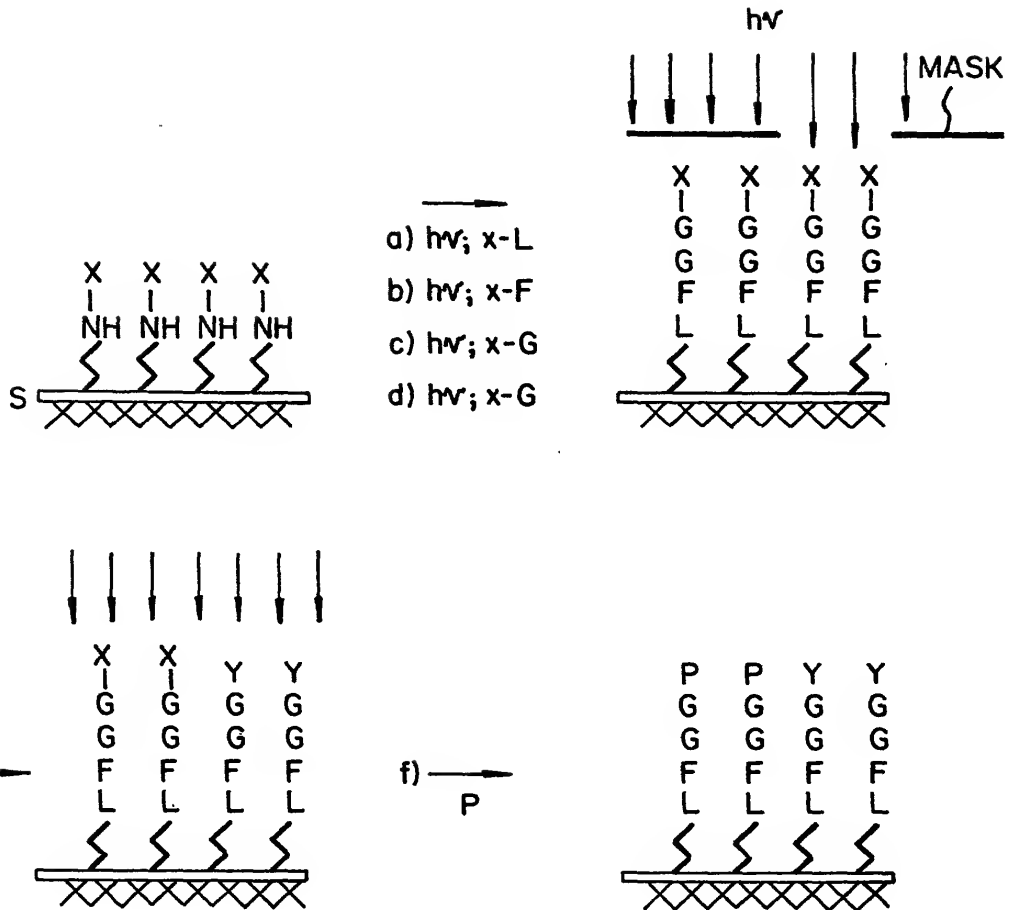
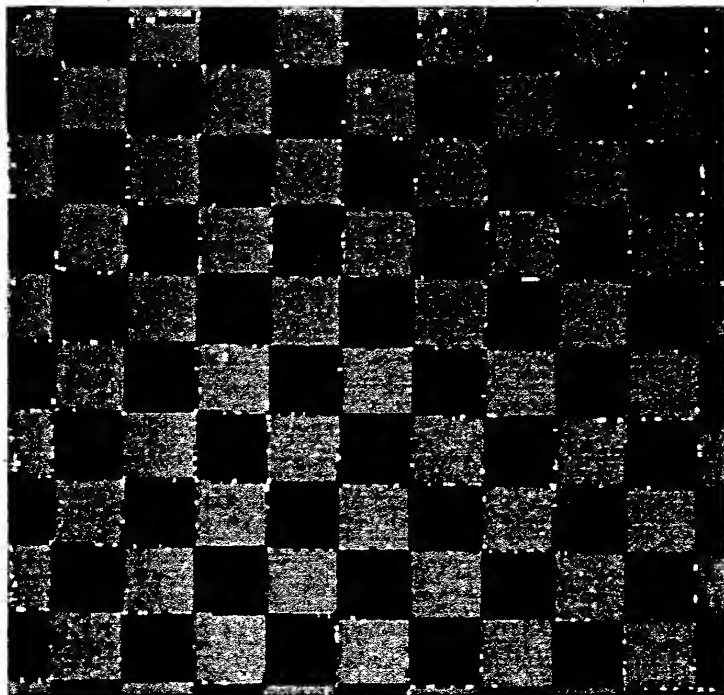


FIG. 11.

10014716-124404



636588  
428583.8  
142577.9  
126977.5  
116577.3  
111377.2  
106177.1  
64576.25  
54176.03  
43775.82  
12575.18

MEAN: 116577.3  
VAR: 1.081645E+10  
 $\sigma$ : 104002.1

**FIG. 12.**

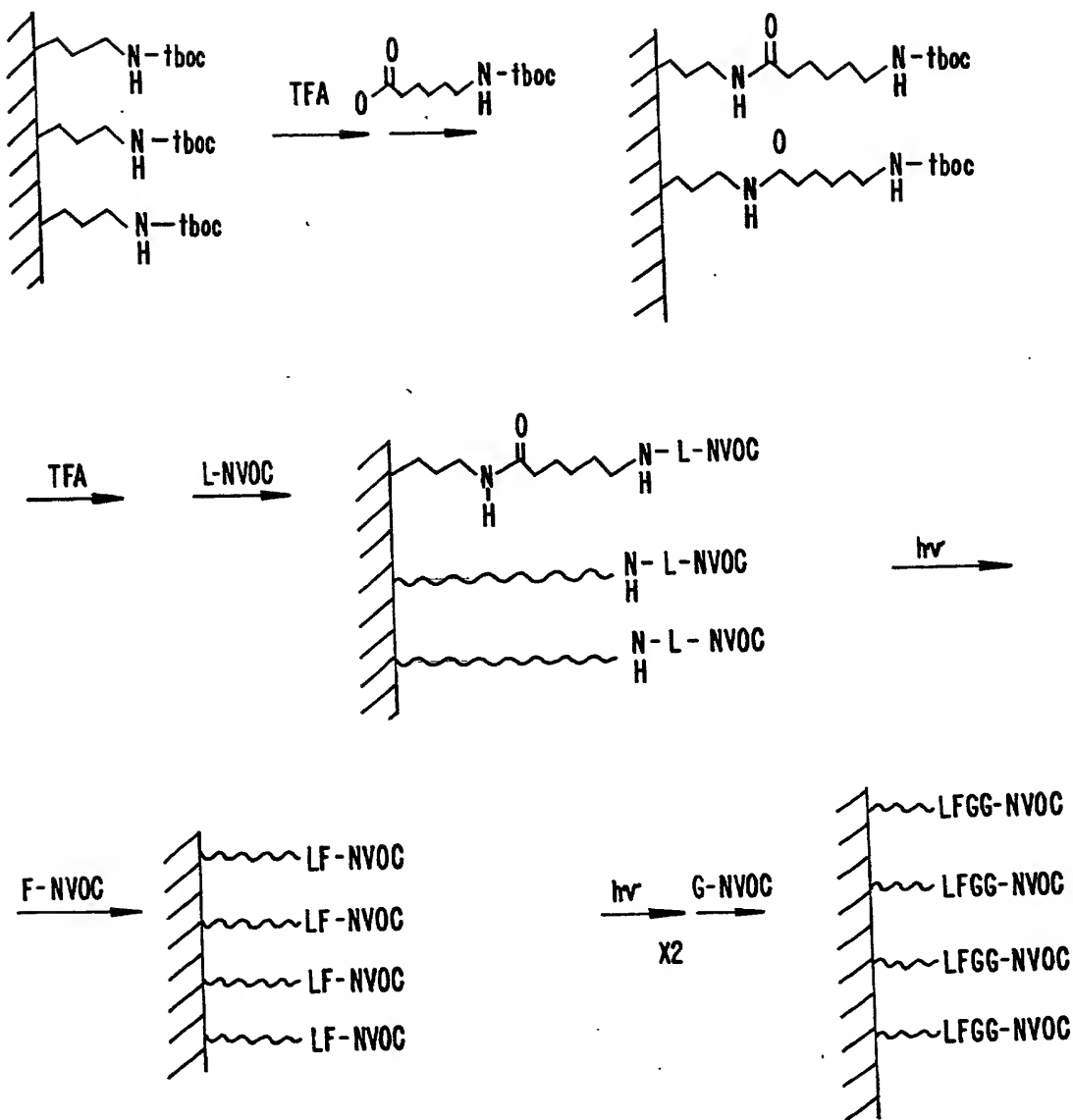


FIG. 13A.

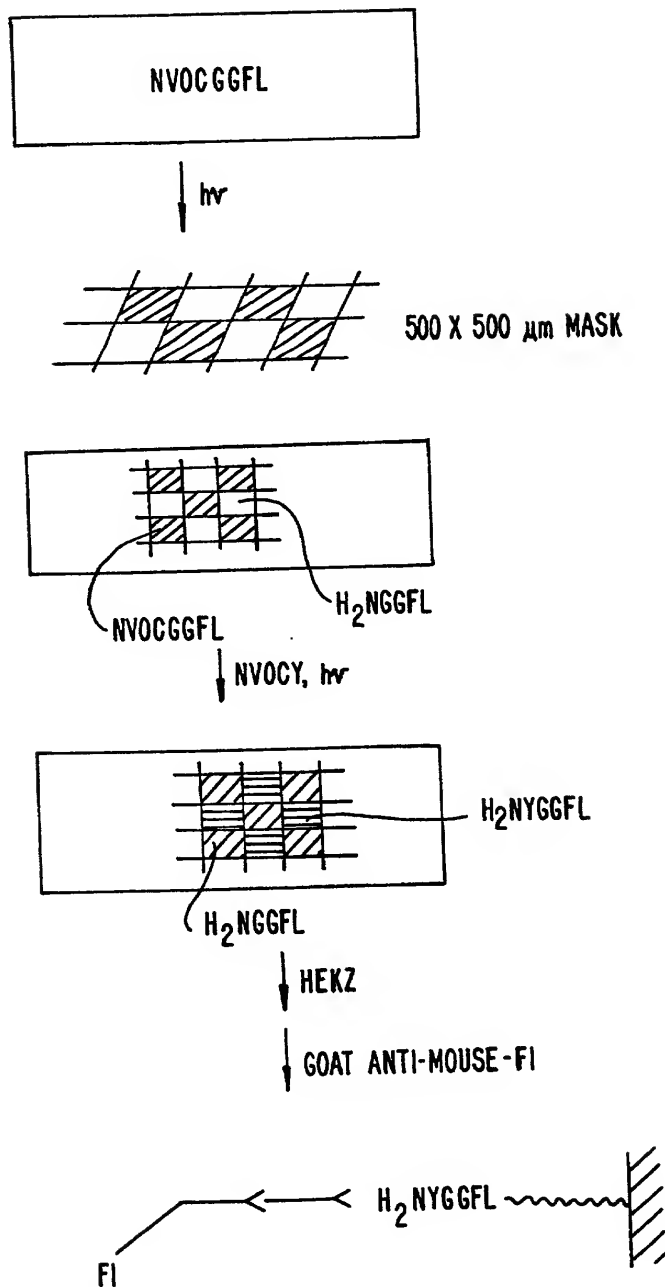
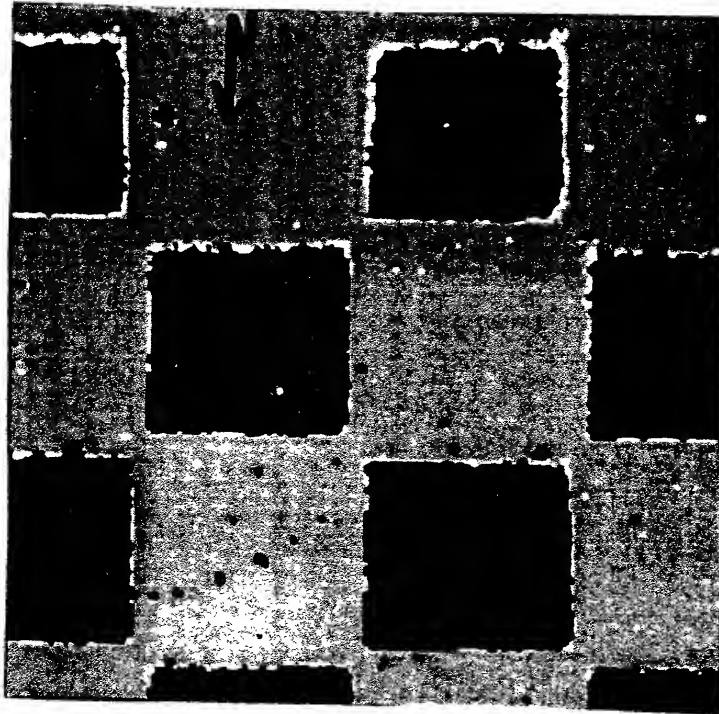


FIG. 13B.

FIG. 13C

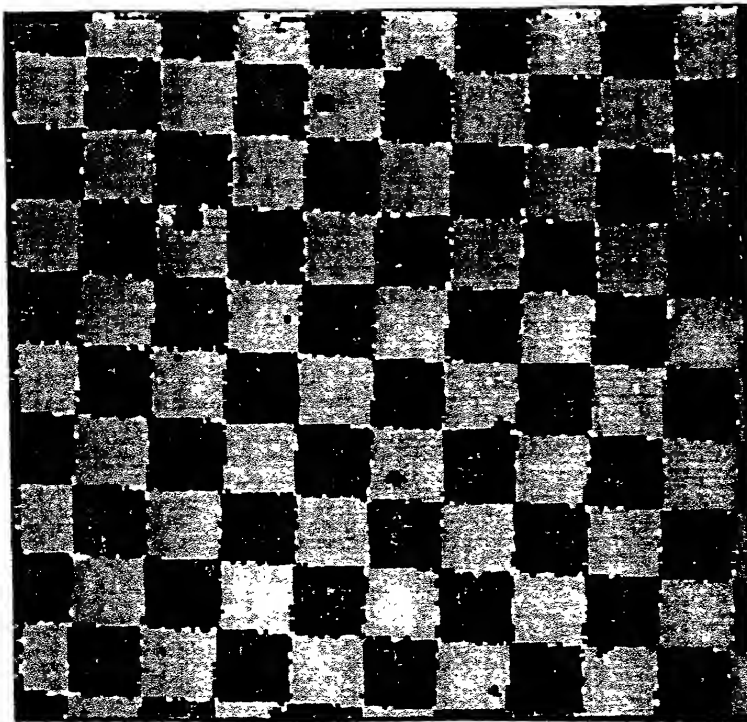


50780.26  
34141.69  
30813.97  
28595.5  
27486.26  
26377.02  
17503.12  
11956.92  
6410.734  
-15774.03  
37958.79

MEAN 28595.5  
VAR 4.921637E+08  
 $\sigma$  22184.76

FIG. 13C.

10044746.104404

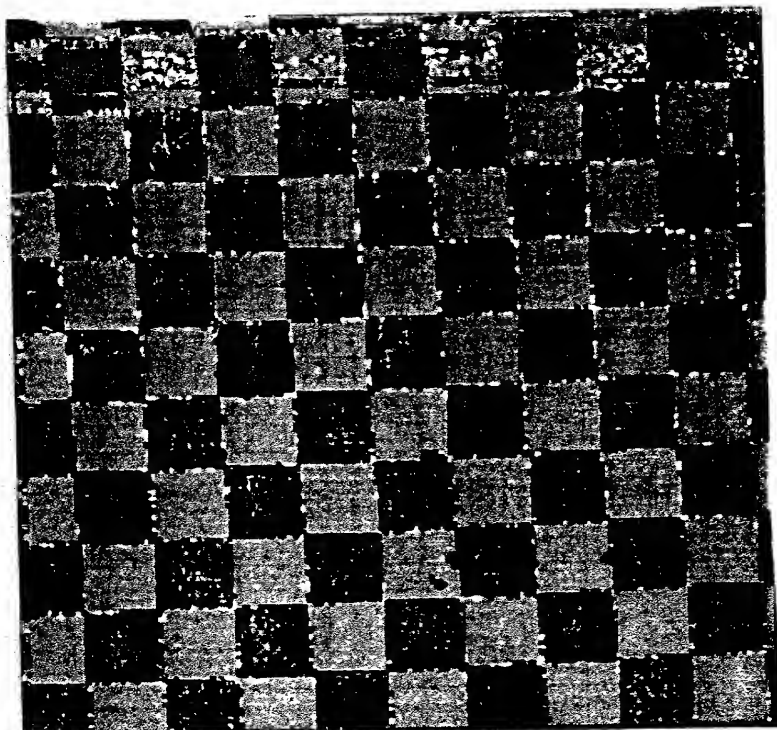


879976.1  
600504.3  
216230.6  
195270.2  
181296.6  
174309.8  
167323  
111428.7  
97455.07  
83481.48  
41560.72

MEAN: 181296.6  
VAR: 1.952612E+10  
 $\sigma$  139735.9

FIG. 13D.

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667348.3  
453053  
158397  
142324.9  
131610.1  
126252.7  
120895.3  
78036.29  
67321.52  
56606.77  
24462.47

MEAN: 131610.1  
VAR: 1.148062E+10  
 $\sigma$  107147.6

FIG. 14.



P	A	S	G	
<u>L</u> PGFL	<u>L</u> AGFL	<u>L</u> SGFL	<u>L</u> GGFL	L
<u>F</u> PGFL	<u>F</u> AGFL	<u>F</u> SGFL	<u>F</u> GGFL	F
<u>W</u> PGFL	<u>W</u> AGFL	<u>W</u> SGFL	<u>W</u> GGFL	W
<u>Y</u> PGFL	<u>Y</u> AGFL	<u>Y</u> SGFL	<u>Y</u> GGFL	Y

L SET

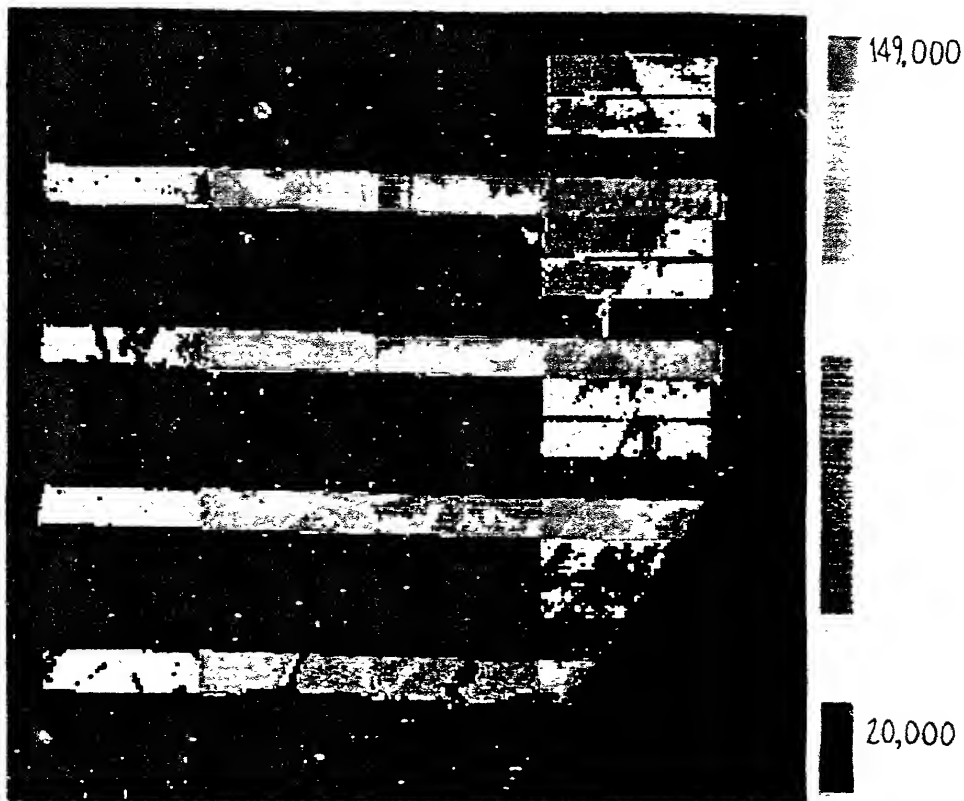
**FIG. 15A.**

p	a	s	G	
<u>Y</u> pGFL	<u>Y</u> aGFL	<u>Y</u> sGFL	<u>Y</u> GGFL	Y
<u>f</u> pGFL	<u>f</u> aGFL	<u>f</u> sGFL	<u>f</u> GGFL	f
<u>w</u> pGFL	<u>w</u> aGFL	<u>w</u> sGFL	<u>w</u> GGFL	w
<u>y</u> pGFL	<u>y</u> aGFL	<u>y</u> sGFL	<u>y</u> GGFL	y

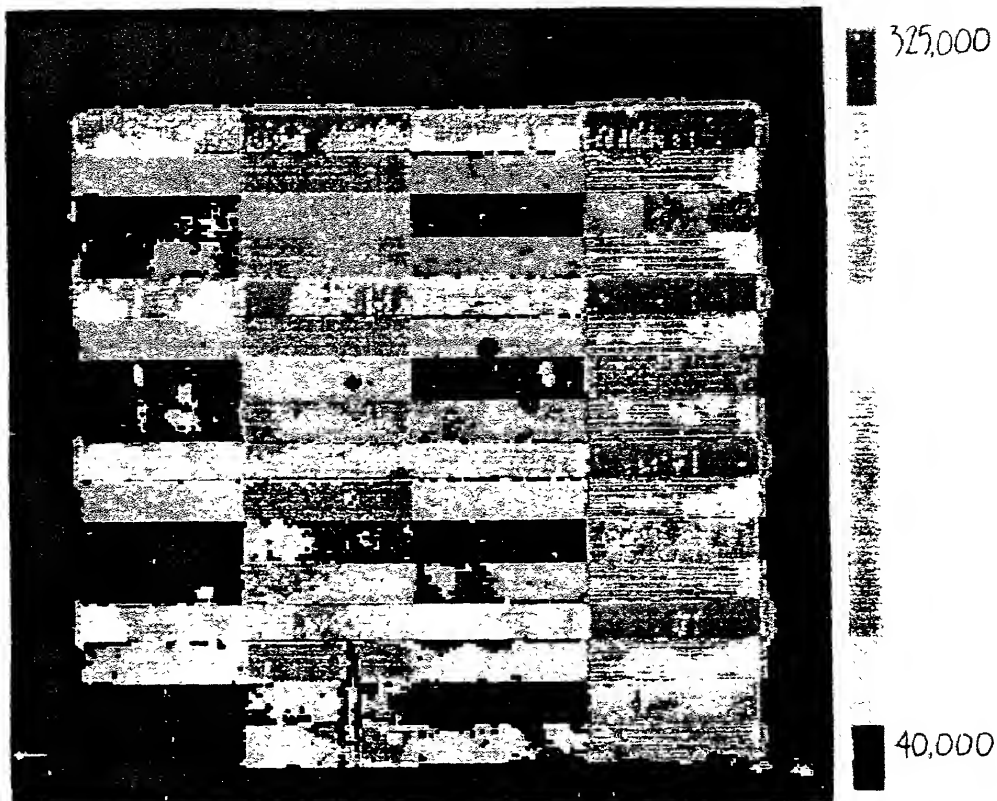
D SET

**FIG. 15B.**

10044716, 101404



**FIG. 16.**



**FIG. 17.**

FIG. 18

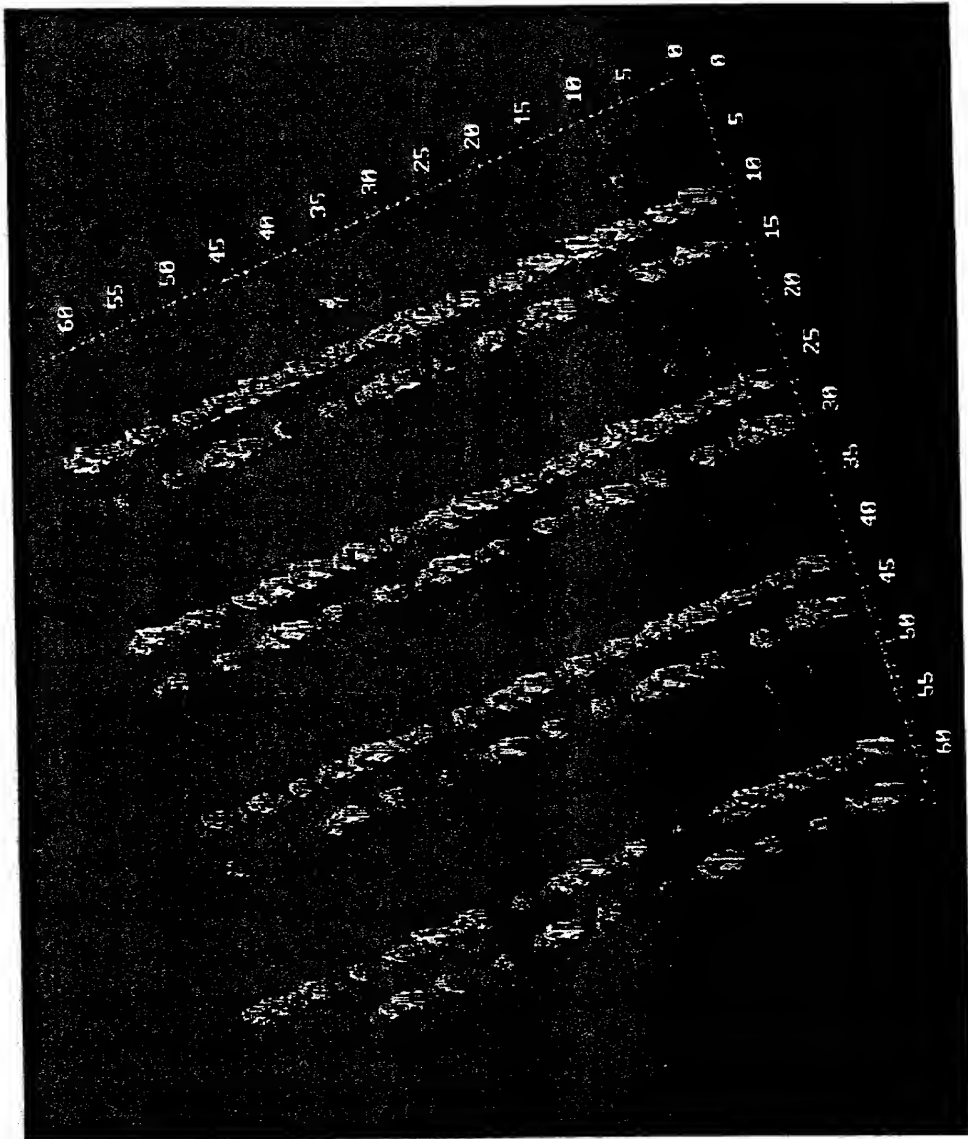
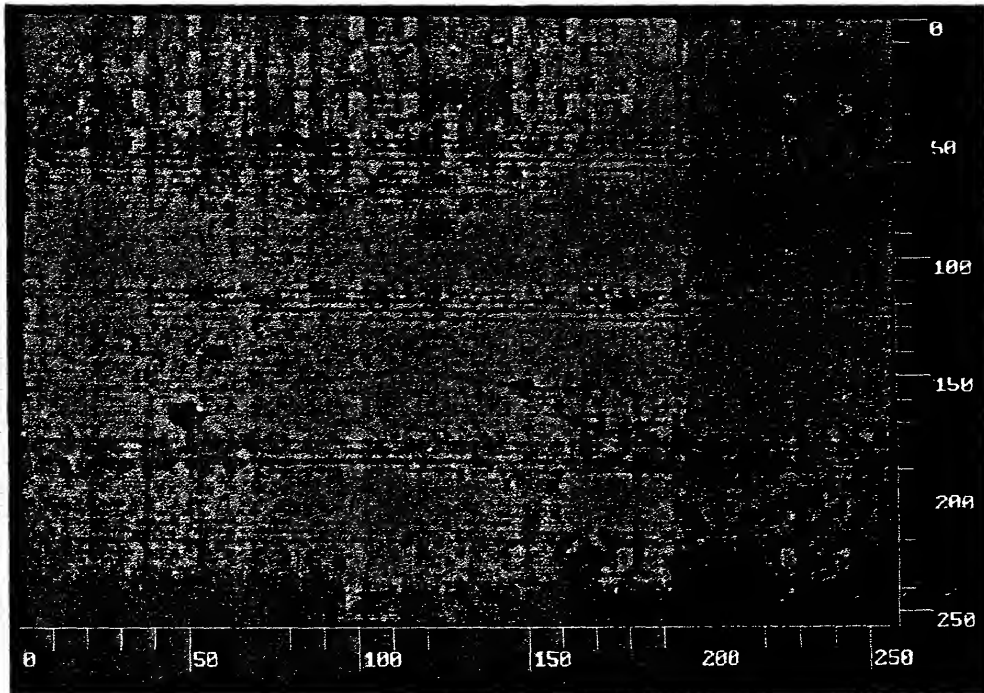
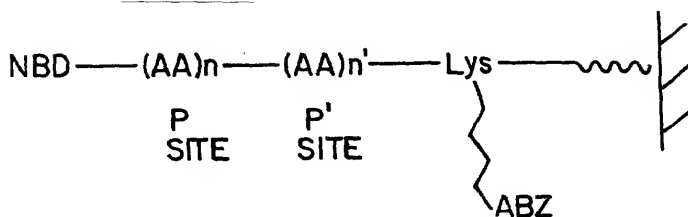


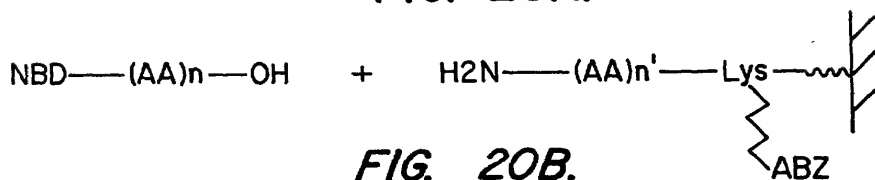
FIG. 18.



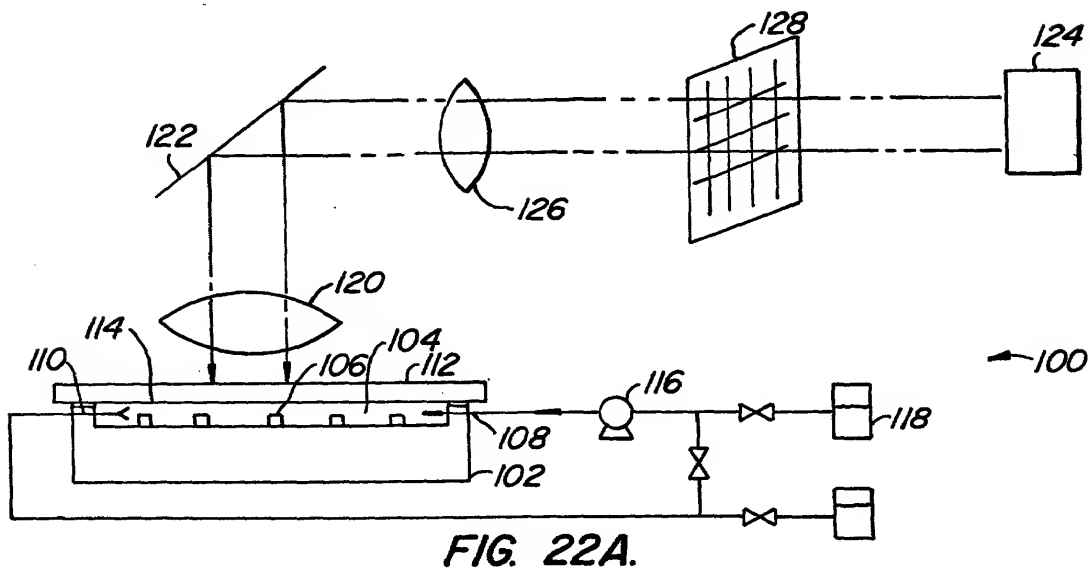
*FIG. 19.*



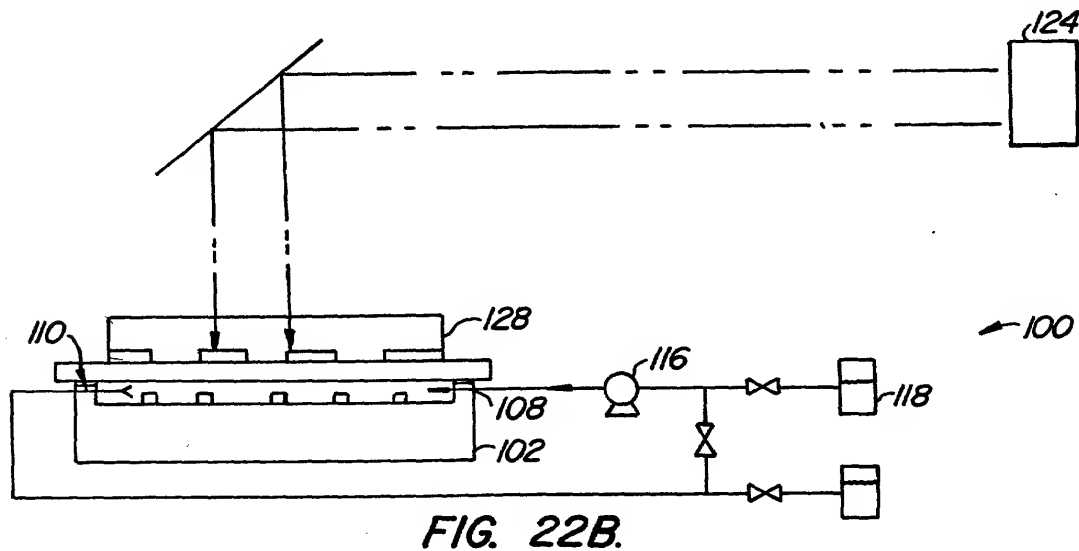
**FIG. 20A.**



**FIG. 20B.**



**FIG. 22A.**



**FIG. 22B.**

10044716-124401

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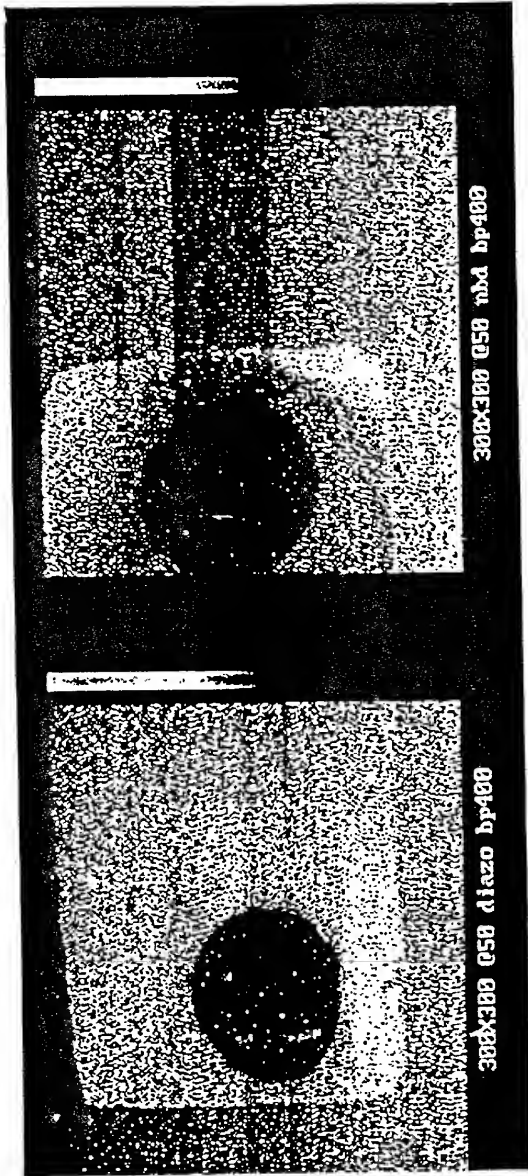


FIG. 21A.

FIG. 21B.

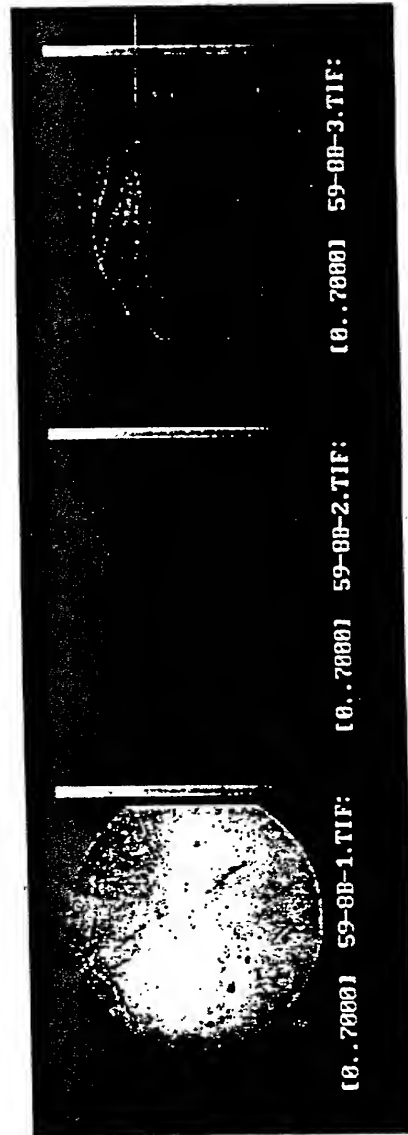
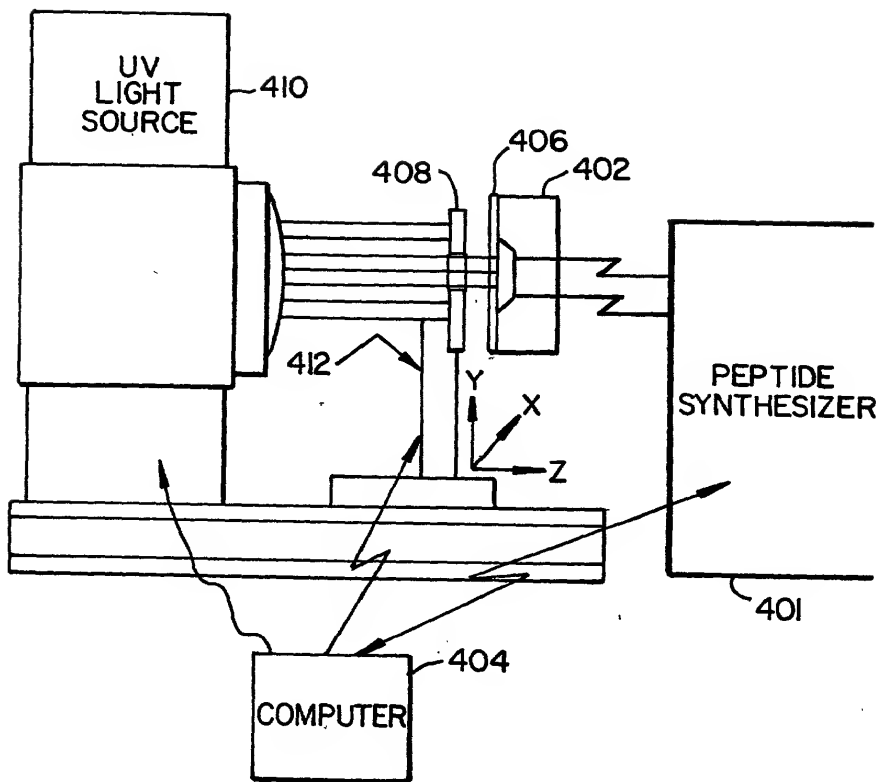


FIG. 39A.

FIG. 39B.

FIG. 39C.



**FIG. 23.**



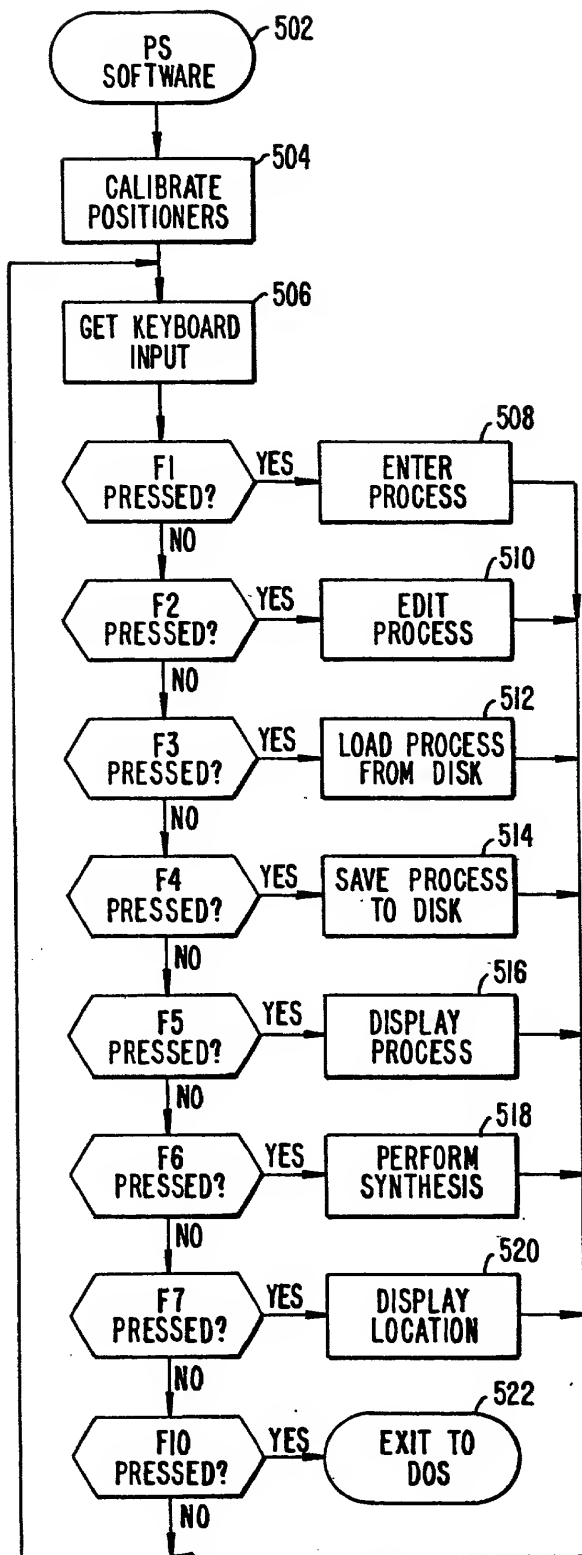


FIG. 24A.

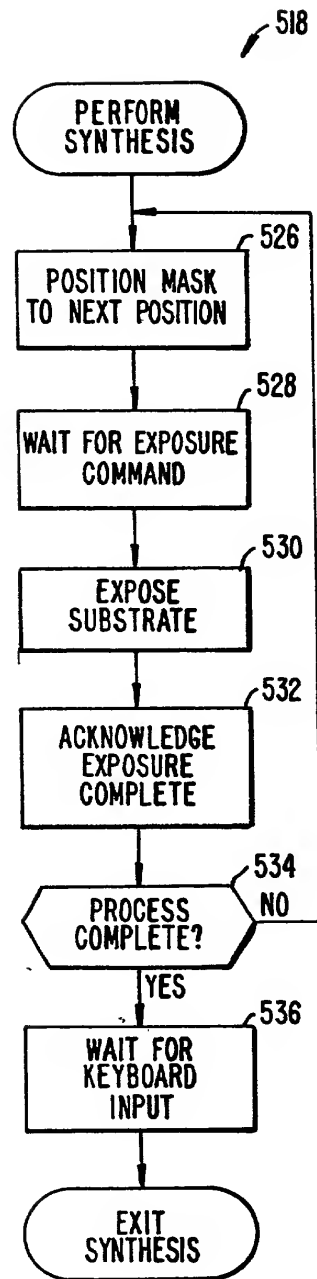


FIG. 24B.

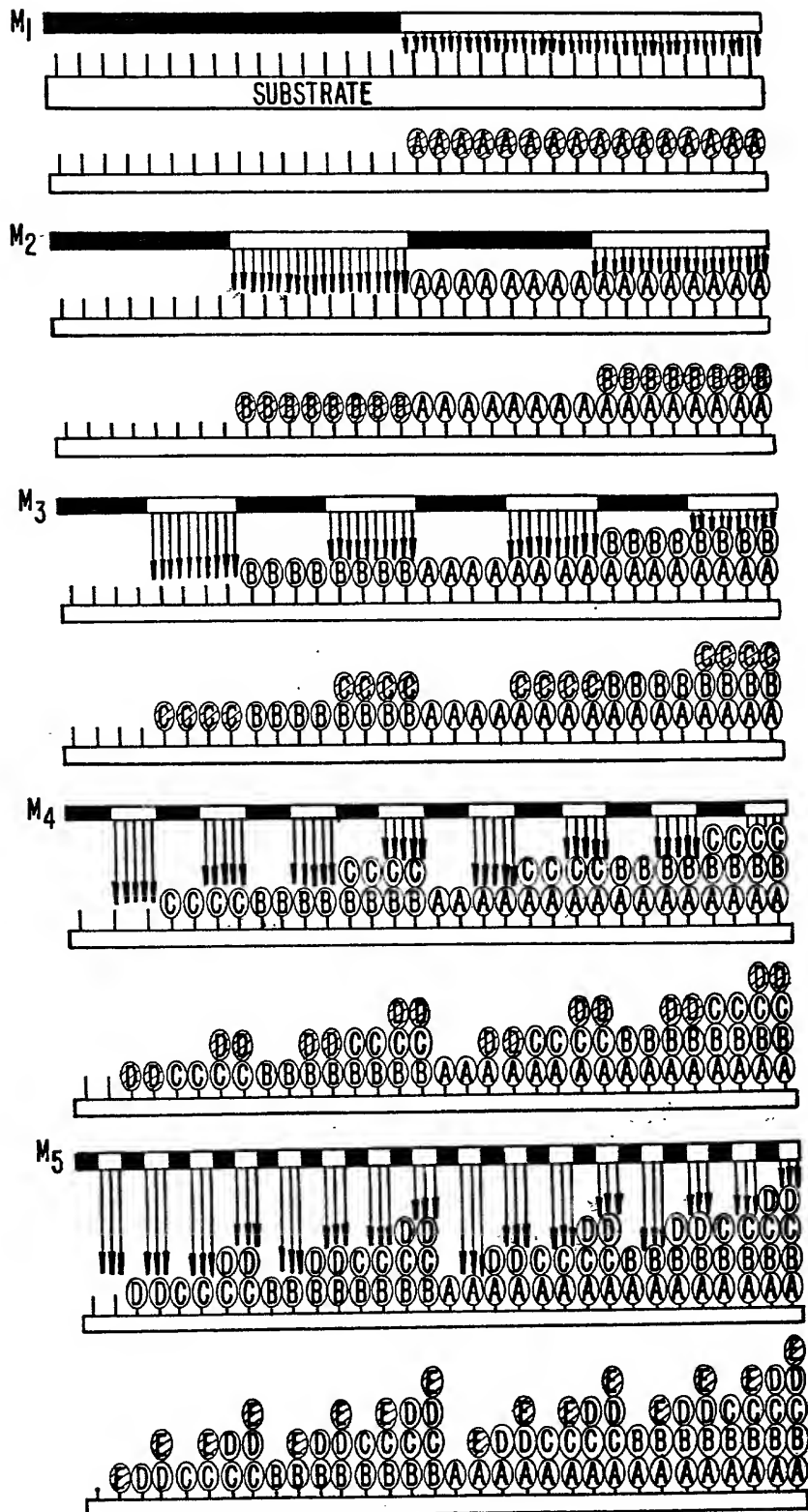


FIG. 25.

10044746-1-1401

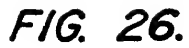
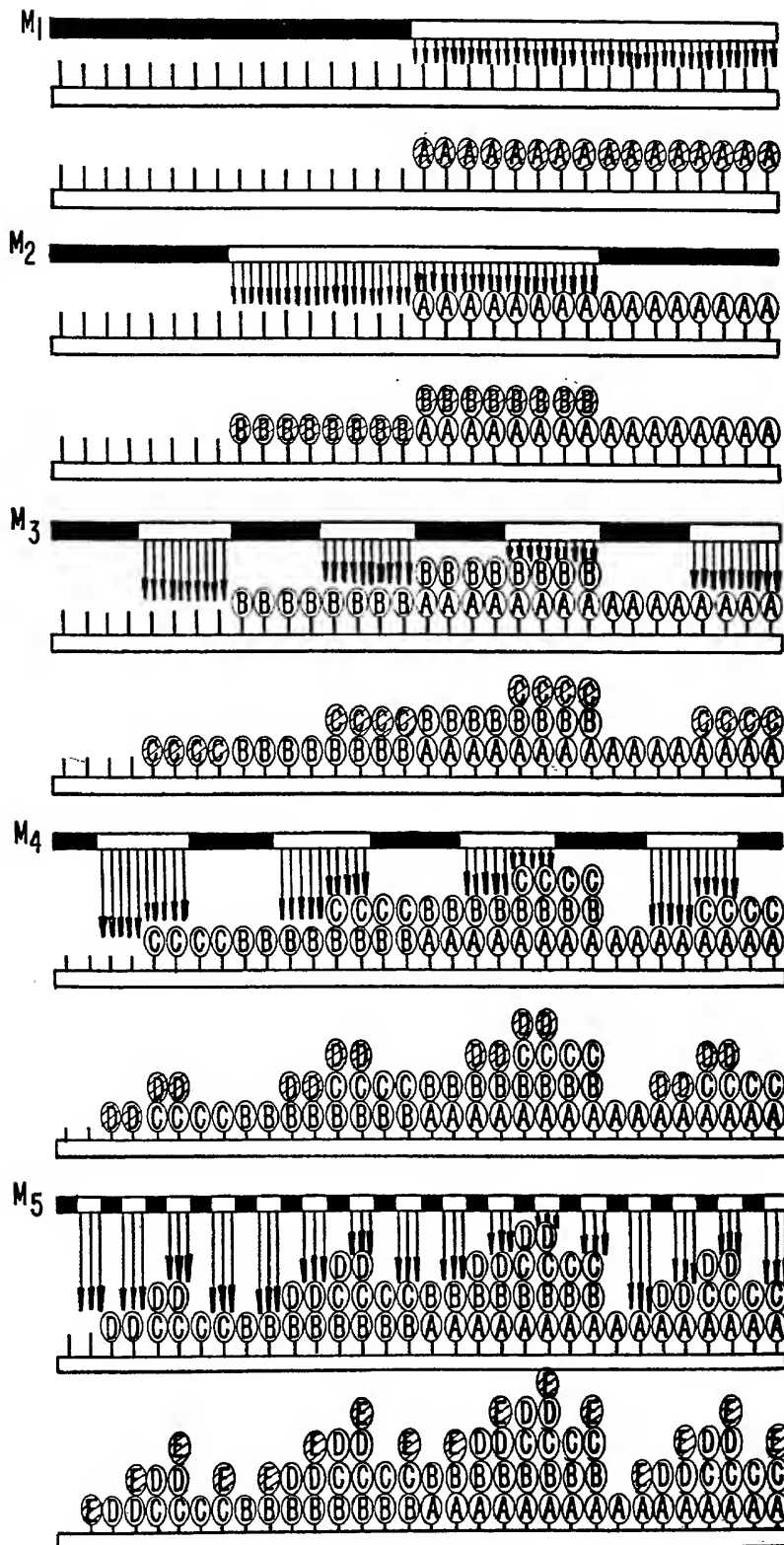


FIG. 27.



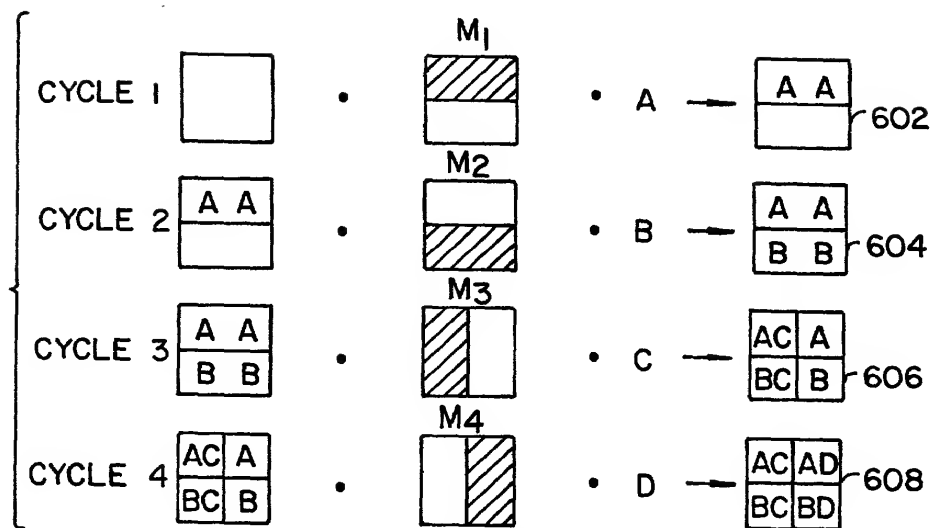


FIG. 28A.

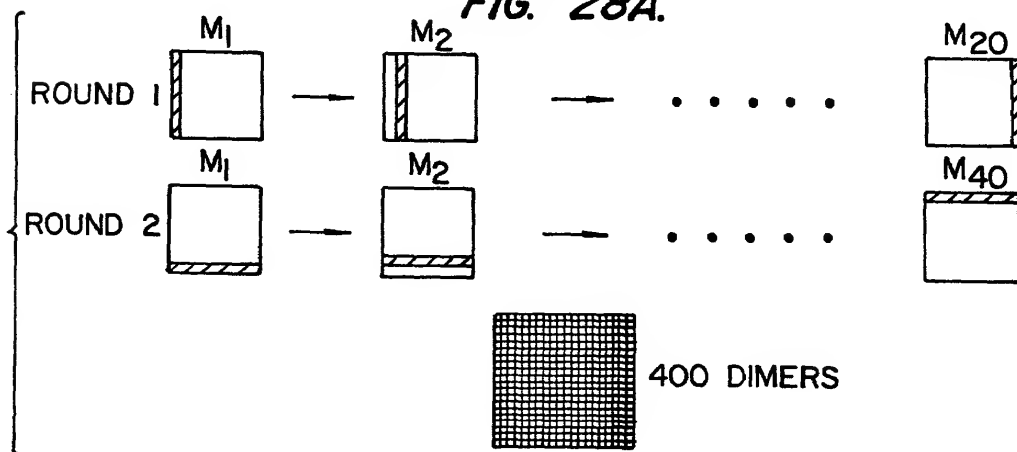


FIG. 28B.

FIG. 29

(x,y)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	f																															
2	Y																															
3		G	G	G	G																											
4			G	G	G	A	A	A																								
5			G	G	G																											
6				T	T	T	T	T																								
7									F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
8																																
9									S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
10																																

FIG. 29.

FIG. 30

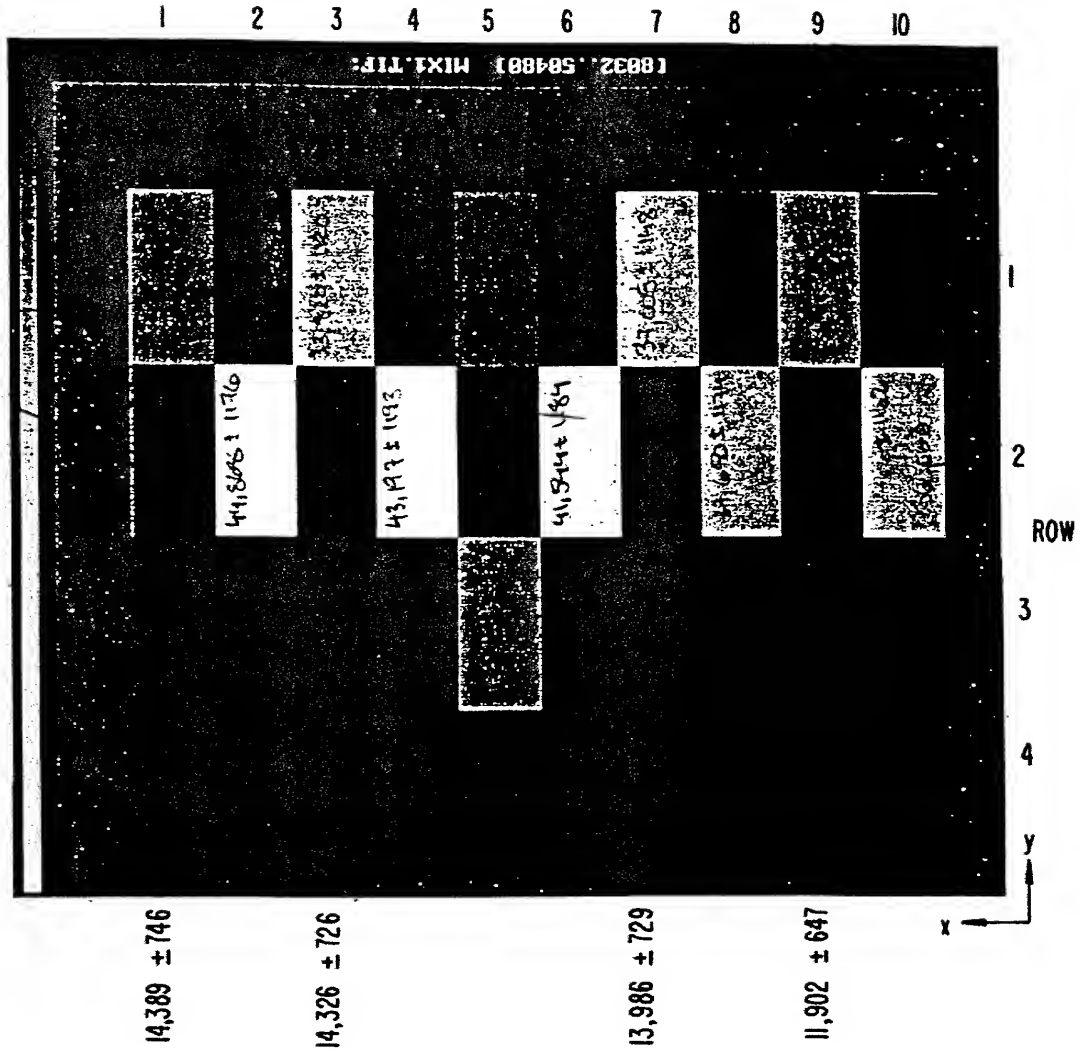






FIG. 30.

STEP	AREA PHOTOLYZED	MASK	COUPLE
1	100%		T
2	100%	"	V
3	100%	"	V
4	100%	"	K
5	50%		F
6 TO 25	Y20	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> 20 STEPS </div> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; width: 50px; height: 20px; margin-bottom: 5px;"></div> <div style="margin-bottom: 5px;">↓</div> <div style="border: 1px solid black; width: 50px; height: 20px; margin-bottom: 5px;"></div> <div style="margin-bottom: 5px;">↓</div> <div style="border: 1px solid black; width: 50px; height: 20px;"></div> </div> <div style="margin-left: 10px; text-align: center;"> W  NOT OVERLAPPING </div> </div>	G, A, R, K, C, M, S D, E, N, Q, F, H W, Y, L, P, V, I, T
26	50%		Q
27	100%		R

WILL GENERATE AN ARRAY OF 4 CLASSES OF PEPTIDES:

- |  |   |  |
|--|---|--|
| (1) RXKVVT<br>(2) RQXKVVT<br>(3) RQXFKVVT<br>(4) RFXKVVT | } | WHERE X REPRESENTS SUBSTITUTION OF ALL<br>20 L-AMINO ACIDS |
|--|---|--|

**FIG. 31.**



10014716.43404

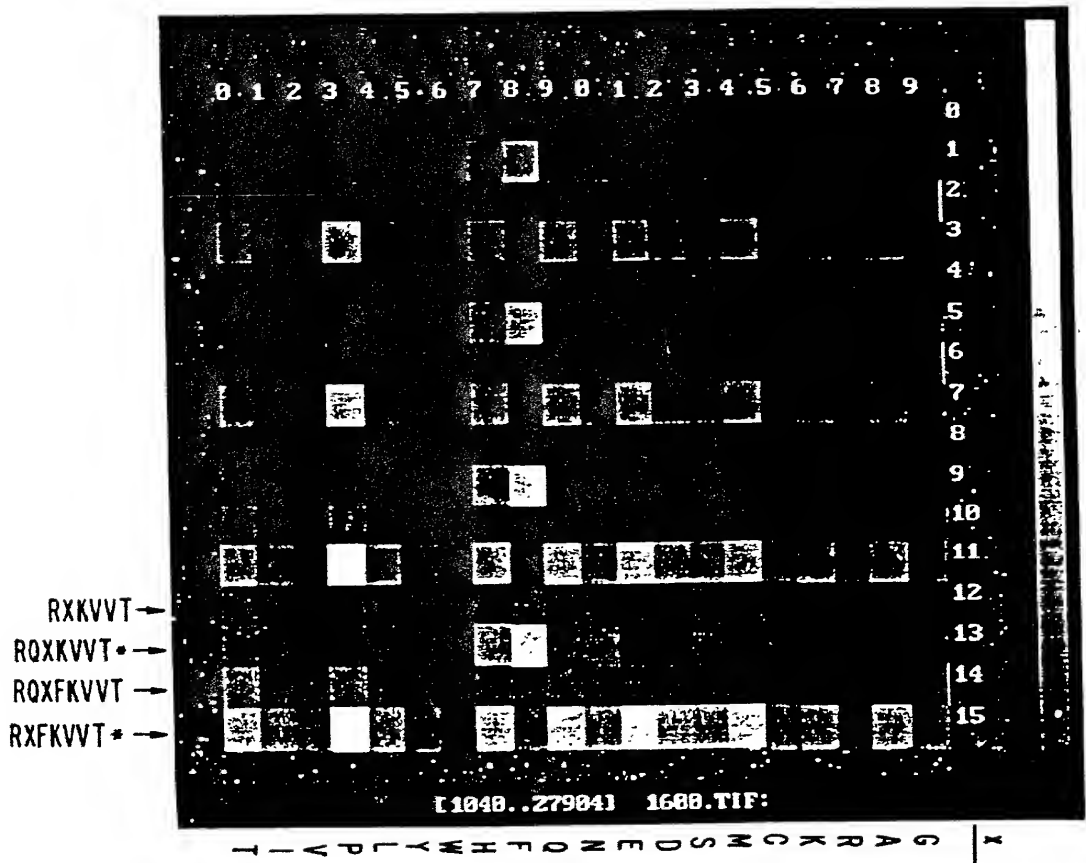
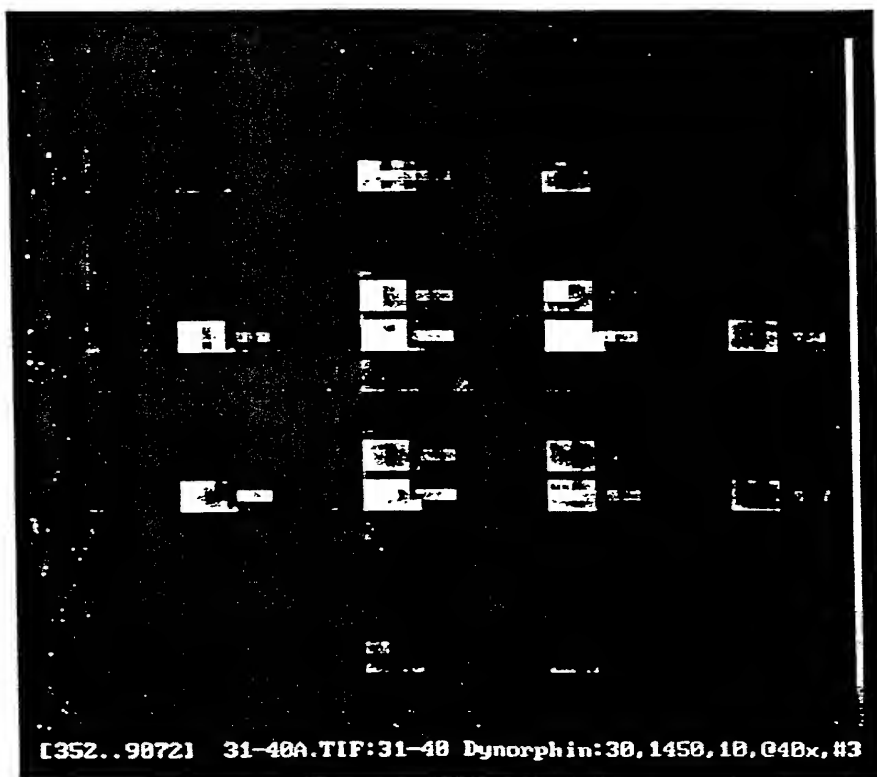


FIG. 32.



**FIG. 33.**

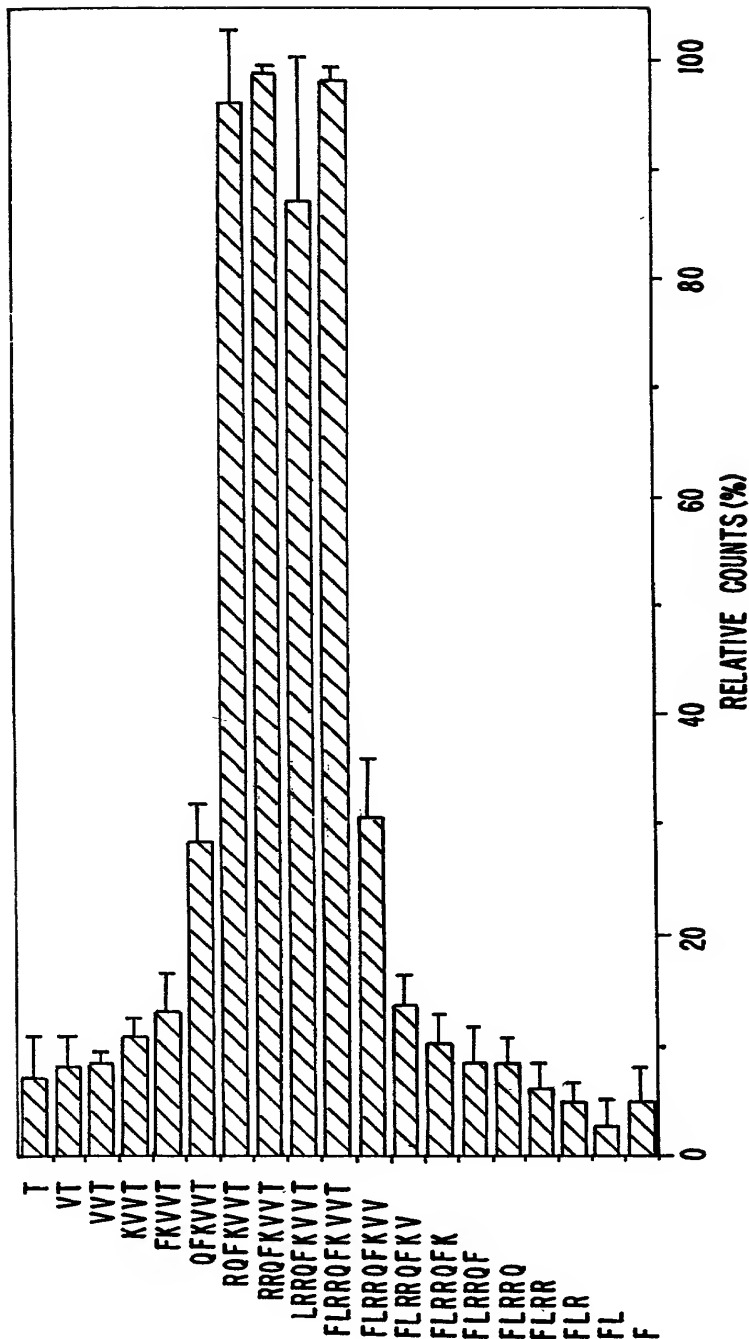


FIG. 34.

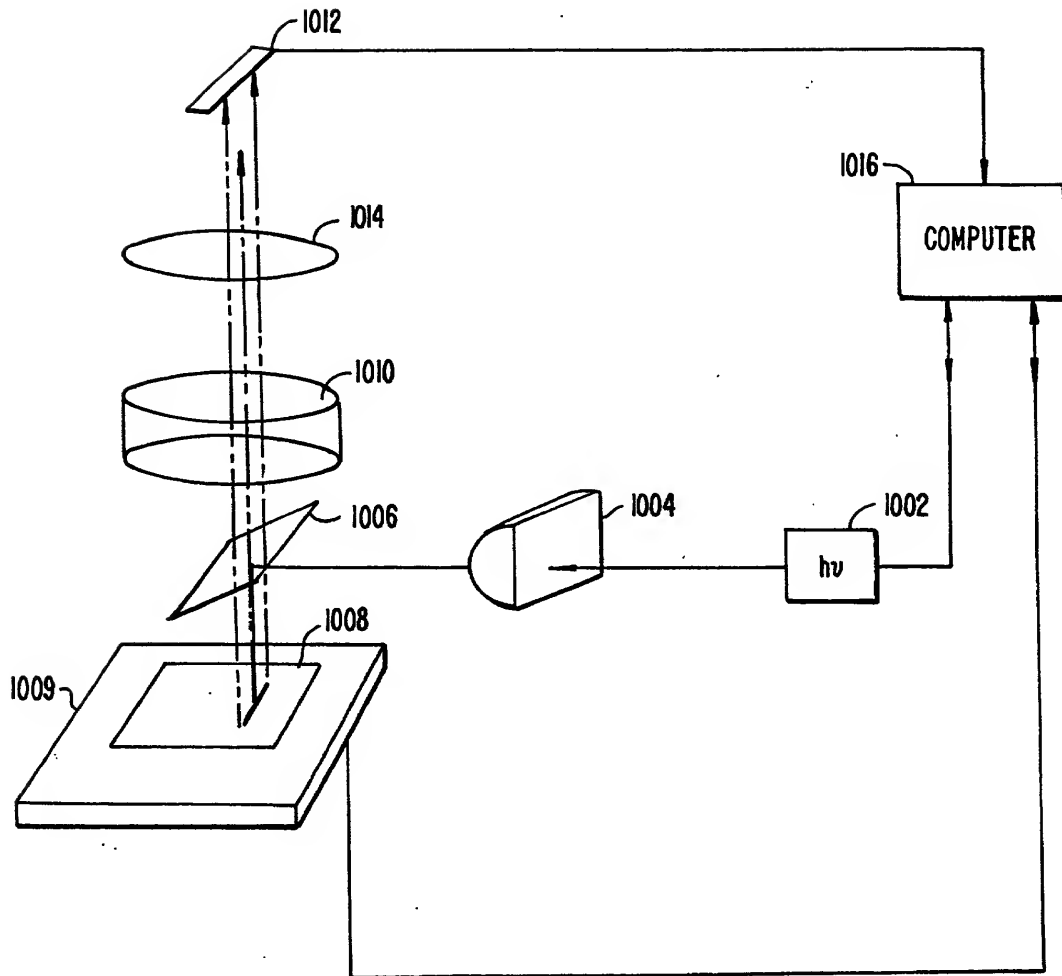


FIG. 35.

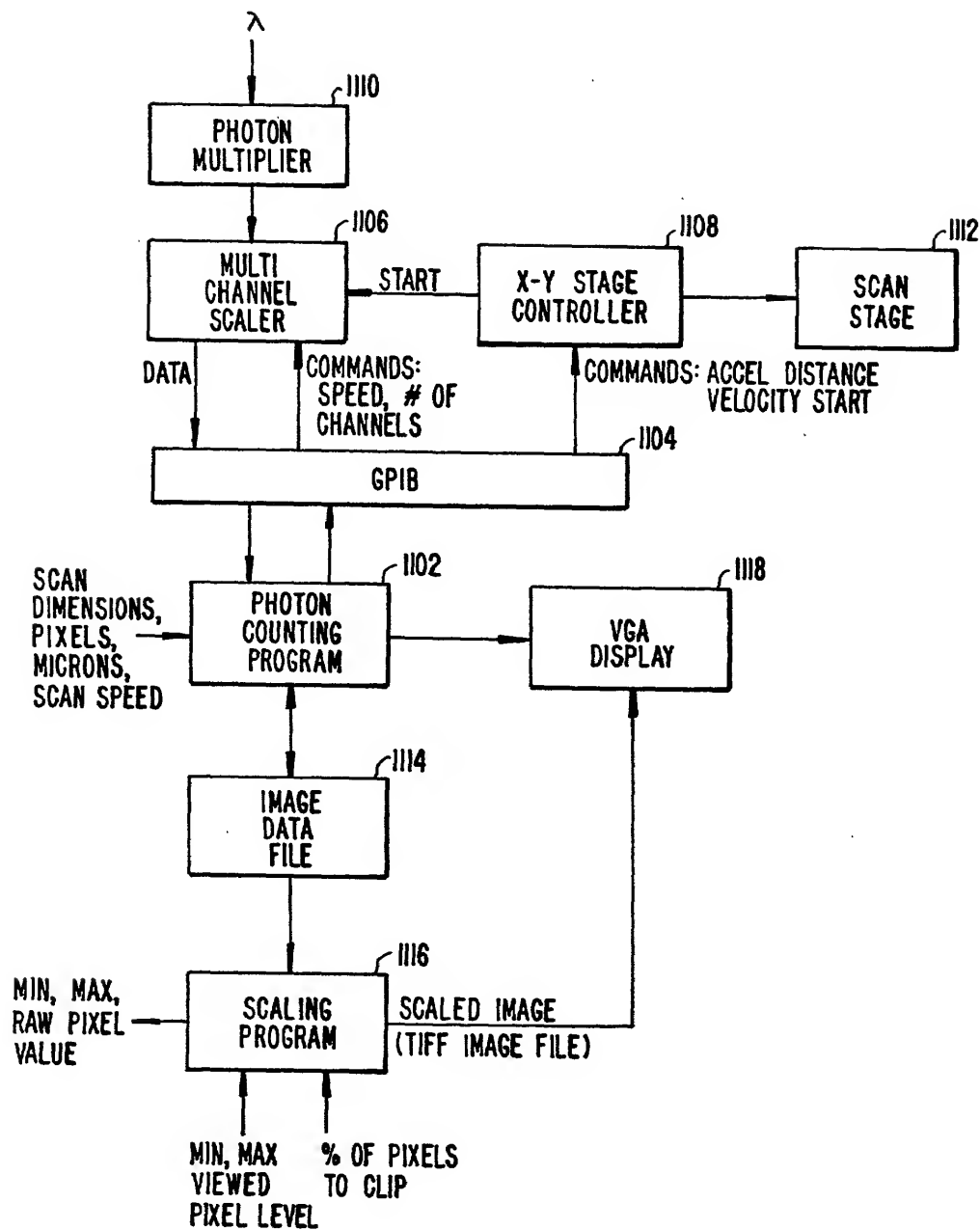


FIG. 36.

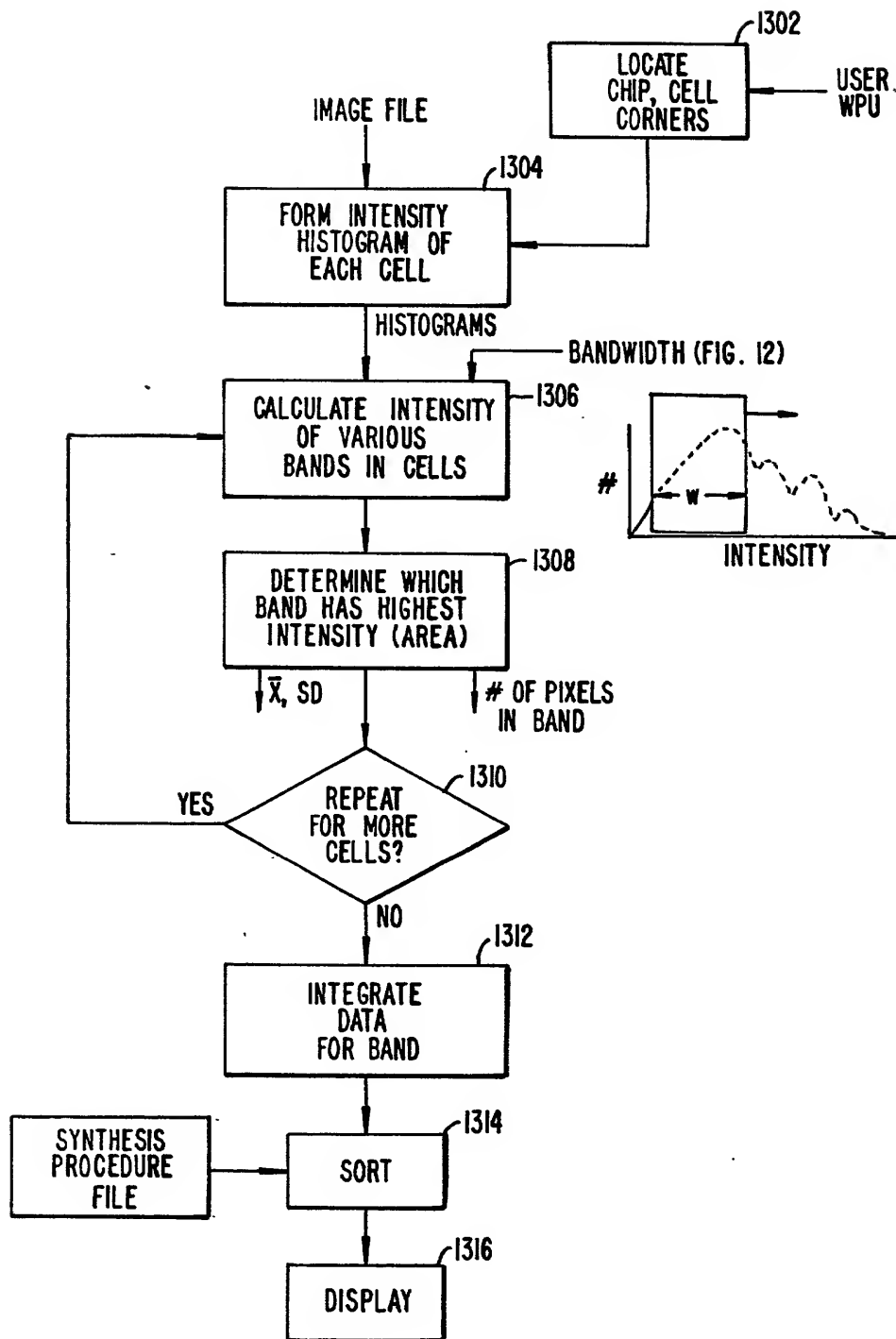


FIG. 37.

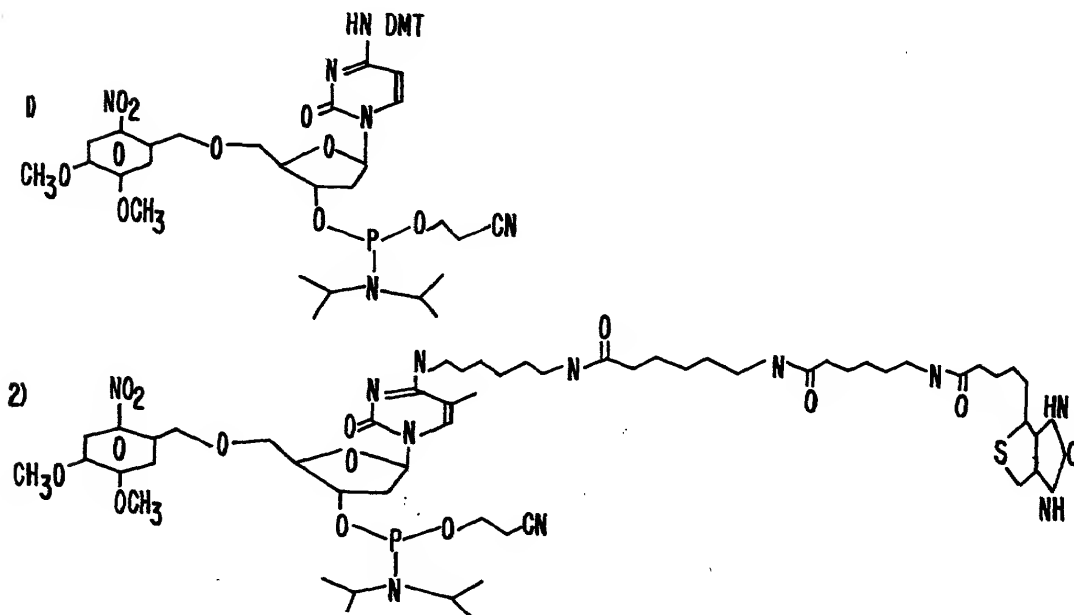
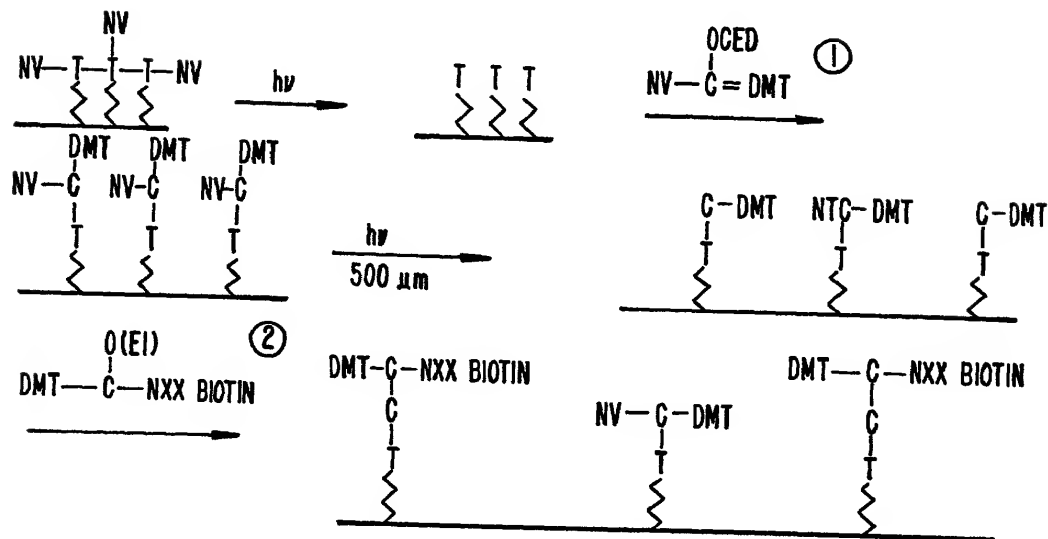


FIG. 38.

FIG. 40A

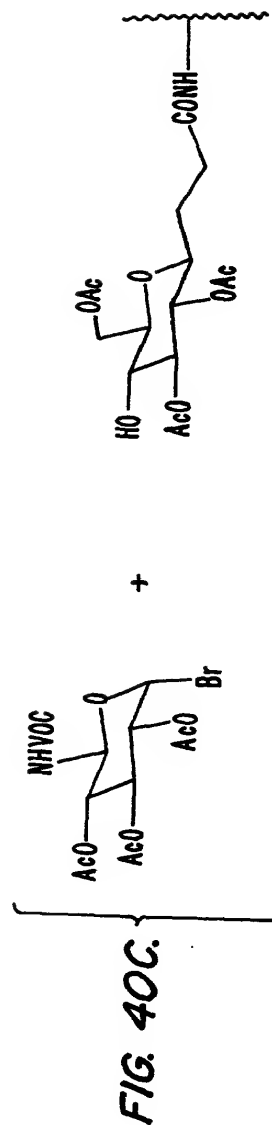
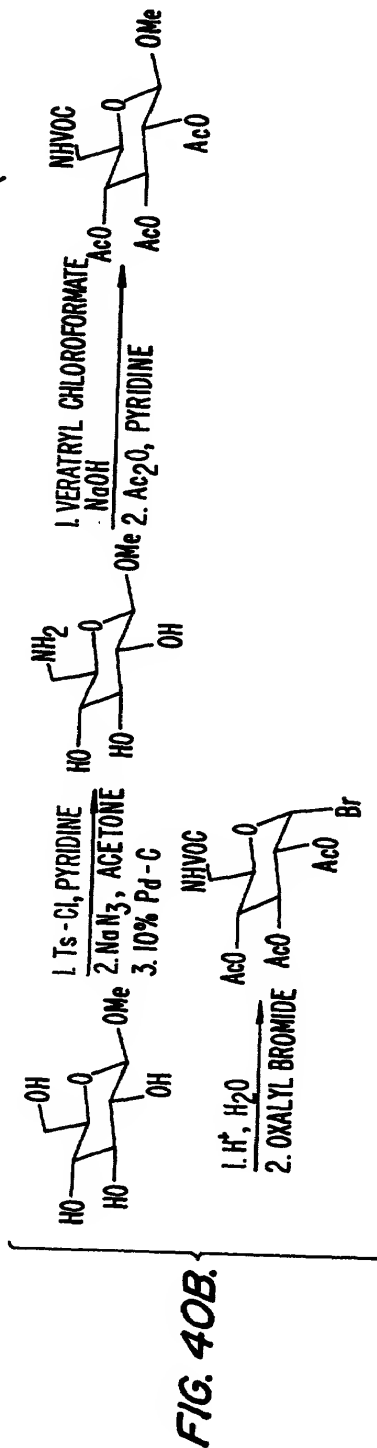
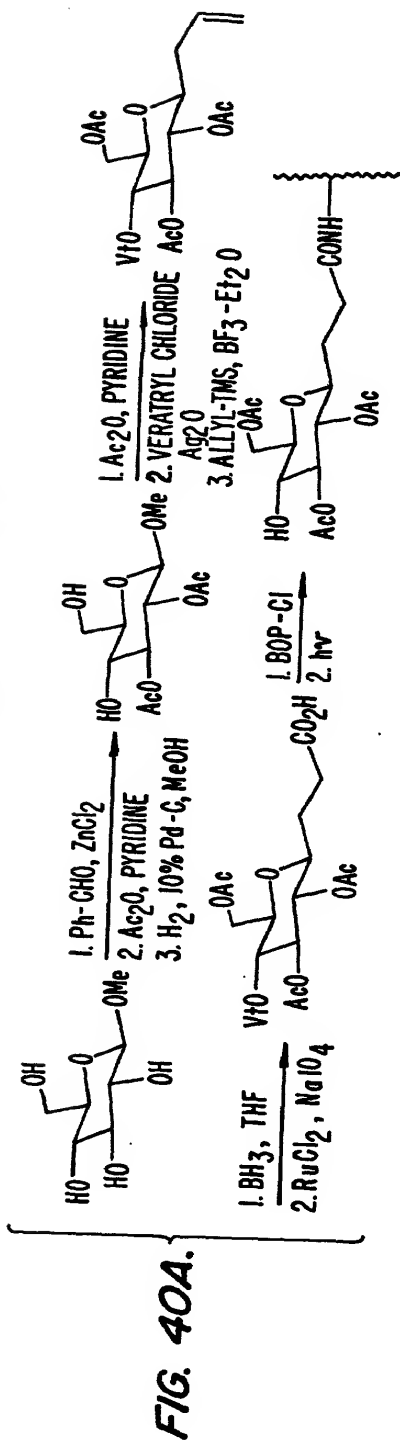
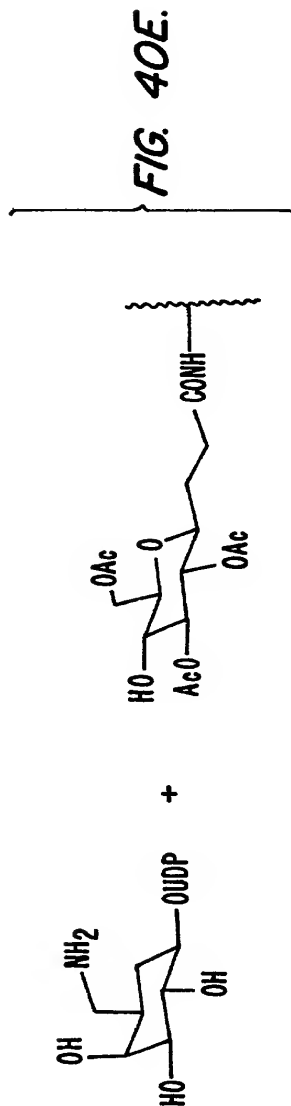
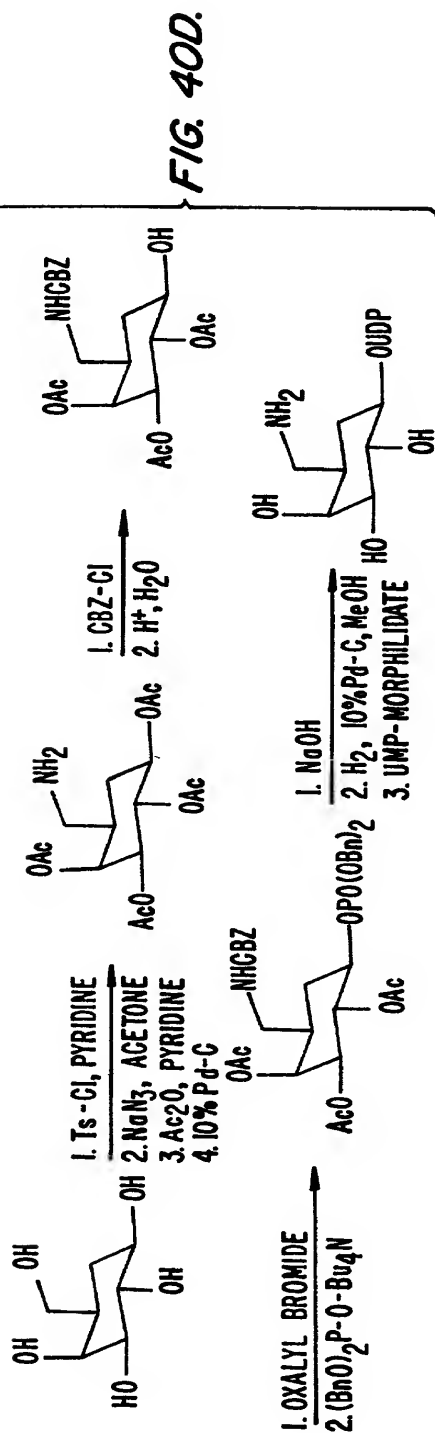
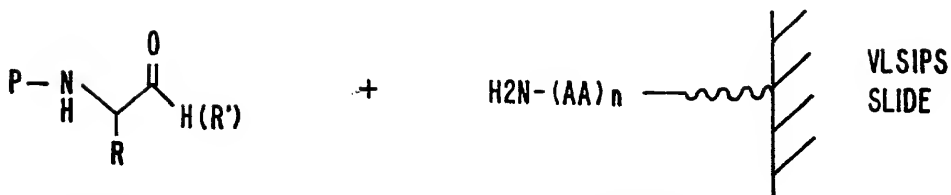


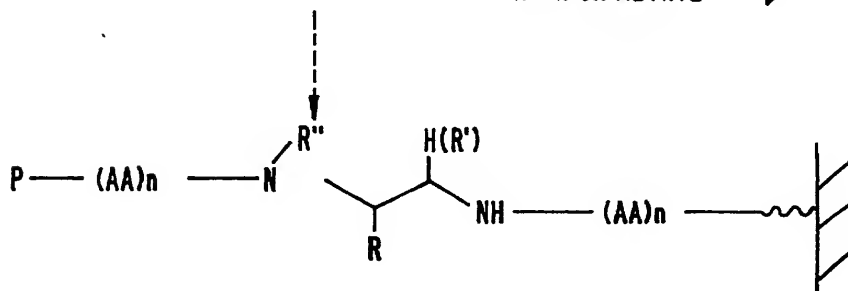
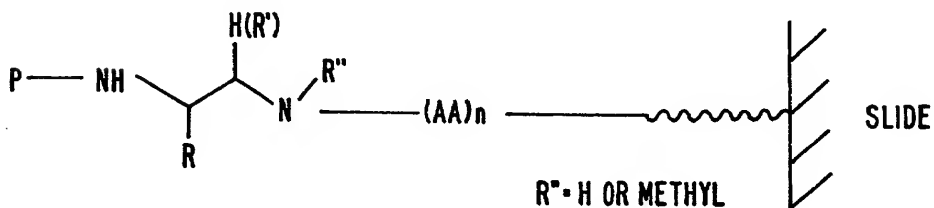
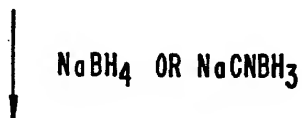
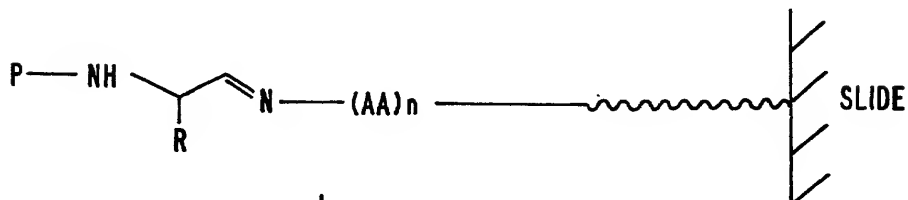
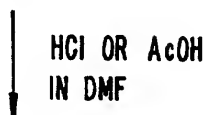


FIG. 40E





WHERE R = AMINO ACID SIDE CHAIN OR OTHER DERIVATIVES  
 R' = ALKYL  
 P = PHOTO LABILE PROTECTING GROUP



**FIG. 41.**

10044716-124404